BDP-100/190/610/620

BLU-RAY DISC PLAYER

USER'S MANUAL

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Batteries or batteries installed apparatus shall not be exposed to excessive heat such as sunshine, fire or the like.

CAUTION

The use of optical instruments with this product will increase eye hazard. As the laser beam used in this Blu-ray Disc player is harmful to eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the laser protective housing inside the enclosure.

Notice for customers in the United Kingdom and Republic of Ireland
A moulded plug complying with BS1363 is fitted to this equipment for your safety and convenience.
Should the fuse in the plug supplied need to be replaced, a fuse of the same rating as the supplied one and approved by ASTA or BSI to BS1362, (i.e., marked with ⛉ or ⛊ mark) must be used. If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest after sales service station.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)
This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

The above symbol is applicable in the European Union and other European countries with separate collection systems.

Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)
This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste.
By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources.

In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only.
To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment.

For all other batteries, please view the section on how to remove the battery from the product safely.
Hand the battery over to the applicable collection point for the recycling of waste batteries.

For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Precautions

Safety

- This unit operates on 100 – 240 V AC, 50/60 Hz. Check that the unit's operating voltage is identical with your local power supply.
- To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

Installing

- Do not install the unit in an inclined position. It is designed to be operated in a horizontal position only.
- Keep the unit and discs away from equipment with strong magnet, such as microwave ovens, or large loudspeakers.
- Do not place heavy objects on the unit.
- Do not install this unit in a confined space, such as a bookshelf or similar unit.
- Install this system so that the mains lead can be unplugged from the wall socket immediately in the event of trouble.

Notes About the Discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface. Dust, fingerprints, or scratches on the disc may cause it to malfunction.

- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature may rise considerably inside the car.
- After playing, store the disc in its case.
- Clean the disc with a cleaning cloth. Wipe the disc from the centre out.

- Do not use solvents such as benzine, thinner, commercially available disc/ lens cleaners, or anti-static spray intended for vinyl LPs.
- If you have printed the disc's label, dry the label before playing.

Precautions

On safety

Should any solid object or liquid fall into the cabinet, unplug the player and have it checked by qualified personnel before operating it any further.

On power sources

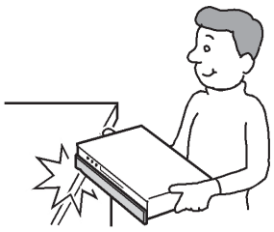
- The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.
- If you are not going to use the player for a long time, be sure to disconnect the player from the wall outlet. To disconnect the AC power cord (mains lead), grasp the plug itself; never pull the cord.

On placement

- Place the player in a location with adequate ventilation to prevent heat build-up in the player.
- Do not place the player on a soft surface such as a rug that might block the ventilation holes.
- Do not place the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.

On operation

- If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the player. Should this occur, the player may not operate properly. In this case, remove the disc and leave the player turned on for about half an hour until the moisture evaporates.
- When you move the player, take out any discs. If you don't, the disc may be damaged.



On adjusting volume

Do not turn up the volume while listening to a section with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level section is played.

On cleaning

Clean the cabinet, panel, and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

On cleaning discs, disc/lens cleaners

Do not use cleaning discs or disc/lens cleaners (including wet or spray types). These may cause the apparatus to malfunction.

On replacement of parts

In the events that this player is repaired, repaired parts may be collected for reuse or recycling purposes.

IMPORTANT NOTICE

Caution: This player is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time you risk permanent damage to your television screen. Plasma display panel televisions and projection televisions are susceptible to this.

If you have any questions or problems concerning your player, please consult your nearest retail dealer.

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Basic Information

About this manual

Instructions in this manual describe the controls on the remote. You can also use the controls on the player if they have the same or similar names as those on the remote. The meanings of the icons used in this manual are described below:

Icon	Meaning
BD	Functions available for BD-ROMs and BD-REs/BD-Rs*1, including DL discs.
DVD	Functions available for DVD VIDEOs and DVD+RWs/DVD+Rs in +VR mode or DVD-RWs/DVD-Rs in video mode, including 8 cm discs.
DATA DVD	Functions available for DATA DVDs (DVD+RWs/DVD+Rs/DVD-RWs/DVD-Rs containing MPEG-2 movie files, and JPEG image files).
CD	Functions available for music CDs or CD-Rs/CD-RWs in music CD Format.

*1 BD-REs/BD-Rs in BDMV mode only.

Note

The on-screen display illustrations used in this manual may not match the graphics displayed on your TV screen.

This Player Can Play the Following Discs and Files

Disc Format	
Blu-ray Disc	Blu-ray Disc
DVD VIDEO	DVD VIDEO
DVD-RW/-R	DVD RW, DVD R R4.7
DVD+RW/+R	RW DVD+ReWritable, RW DVD+R, RW DVD+R DL
CD	COMPACT disc DIGITAL AUDIO

"Blu-ray Disc" is a trademark.
"Blu-ray Disc," "DVD+RW," "DVD-RW," "DVD+R," "DVD-R," "DVD VIDEO," and "CD" logos are trademarks.

Supported file formats (DATA DVD only)

DVD+RWs/DVD-RWs/DVD+Rs/DVD-Rs are called "DATA DVD" in this manual when the discs contain playable files. The following file formats are supported:

- MPEG-2 movie files.
- JPEG* image files.

* JPEG format conforming to UDF (Universal Disk Format).

Notes about BD-ROM compatibility

This player supports BD-ROM Profile 1 only. Playback of later versions and BDs other than BD-ROM is not guaranteed. Since the Blu-ray Disc specifications are new and evolving, some discs may not play depending on the disc type and the version.
The audio output differs depending on the source, connected output jack, and selected audio settings.

Examples of discs that the player cannot play

The player cannot play the following discs:
- BDs with cartridge.
- DVD-RWs/DVD-Rs of VR mode.
- DVD-RAMs.
- HD DVDs.
- DVD Audio discs.
- DATA CDs (CD-Rs/CD-RWs other than music CD format).
- CD-ROMs recorded in PHOTO CDs format.
- Data part of CD-Extras.
- HD layer on Super Audio CDs.

Also, the player cannot play the following discs:
- A BD-ROM/DVD VIDEO with a different region code.
- A disc that has a non-standard shape (e.g., card, heart).
- A disc with paper or stickers on it.
- A disc that has the adhesive of cellophane tape or a sticker still left on it.

Notes

• **Notes about BD-REs/BD-Rs, DVD+RWs/ DVD+Rs, DVD-RWs/ DVD-Rs, or CD-Rs/CD-RWs** Some BD-REs/ BD-Rs, DVD+RWs/ DVD+Rs, DVD-RWs/ DVD-Rs, or CD-Rs/ CD-RWs cannot be played on this player due to the recording quality or physical condition of the disc, or the characteristics of the recording device and authoring software. The DVD disc will not play if it has not been correctly finalized. For more information, refer to the operating instructions for the recording device. Note that some playback functions may not work with some DVD+RWs/DVD+Rs, even if they have been correctly finalized. In this case, view the disc by normal playback.

• Music discs encoded with copyright protection technologies

This product is designed to playback discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are being marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

• Note on Dual-Discs

A Dual-Disc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

• Note about double-layer DVDs

The playback pictures and sound may be momentarily interrupted when the layers switch.

• Note about 8 cm BD-REs/8 cm BD-Rs

Some 8 cm BD-REs/8 cm BD-Rs cannot be played on this player.

About playback of discs recorded in AVCHD format

This player can play AVCHD format discs.

AVCHD™

What is the AVCHD format?

The AVCHD format is a high definition digital video camera format used to record SD (standard definition) or HD (high definition) signals of either the 1080i specification*1 or the 720p specification*2 on DVDs, using efficient data compression coding technology. The MPEG-4 AVC/H.264 format is adopted to compress video data, and the Dolby Digital or Linear PCM system is used to compress audio data. The MPEG-4 AVC/H.264 format is capable of compressing images at higher efficiency than that of the conventional image compressing format. The MPEG-4 AVC/H.264 format enables a high definition (HD) video signal shot on a digital video camera recorder to be recorded on DVD discs, in the same way as it would be for a standard definition (SD) television signal.

"AVCHD" and the AVCHD logo are trademarks of Matsushita Electric Industrial Co., Ltd. and Sony Corporation.

*1 A high definition specification which utilizes 1080 effective scanning lines and the interlace system.

*2 A high definition specification which utilizes 720 effective scanning lines and the progressive system.

Notes

• Some AVCHD format discs may not play, depending on the recording condition.

• The AVCHD format disc will not play if it has not been correctly finalized.

BD/DVD region code

Your player has a region code printed on the back of the unit and only will play BD-ROM/DVD VIDEOs (playback only) labeled with identical region codes. This system is used to protect copyrights.

DVD VIDEOs labeled will also play on this player.

Depending on the BD-ROM/DVD VIDEO, there may be no region code indication, even though playing the BD-ROM/DVD VIDEO is prohibited by area restrictions.

Note on playback operations of BDs/ DVDs

Some playback operations of BDs/DVDs may be intentionally set by software producers. Since this player plays BDs/DVDs according to the disc contents the software producers designed, some playback features may not be available. Also, refer to the instructions supplied with the BDs/DVDs.

Copyrights

This item incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Rovi Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Rovi Corporation. Reverse engineering or disassembly is prohibited.

Main Features

Experience the high definition (HD) quality audio/video output and the library function of this Blu-ray Disc Player.

BD-ROM playback

BD-ROM is a next generation optical disc format in the HD era. Featuring massive storage capacity of 25 to 50 GB (five times larger than a DVD) and a high-speed transfer rate of up to 54 Mbps, the format offers not only uncompromised HD quality video*1*2, but also enables rich bonus content on a single disc and HD quality audio up to 8ch, and interactive operability.

*1 A compatible HD display device is necessary to enjoy the same quality.

*2 Some discs allow viewing only with an HDMI connection.

24p True Cinema

Movies shot with a film camera consist of 24 frames per second. Since conventional televisions (both CRT and flat

panels) display frames either at 1/60 or 1/50 second intervals, the 24 frames do not appear at an even pace.
When connected to a TV with 24p capabilities, the player displays each frame at 1/24 second intervals - the same interval originally shot with the film camera, thus faithfully reproducing the original cinema image.

BD-J application

The BD-ROM format supports Java for interactive functions. “BD-J” offers content providers almost unlimited functionality when creating interactive BD-ROM titles*.

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.
Esmertec and Jbed are trademarks or registered trademarks of Esmertec AG.
© 2000-2007 Esmertec AG
* This player does not support downloadable BD-J content.

Support of “Dolby TrueHD”

The player supports the bitstream output functionality of Dolby TrueHD, Dolby Digital Plus, and DTS-HD High Resolution Audio bitstream via HDMI. It also supports the decoding functionality of Dolby TrueHD and Dolby Digital Plus to Linear PCM via HDMI.

AVCHD format disc playback

The player supports AVCHD format files–high definition recordings made on AVCHD-compatible camcorders. Your high definition personal archive is readily playable in HD quality.

Support of uncompressed multi-channel Linear PCM

In combination with a compatible AV amplifier, the player can output up to 5.1ch Linear PCM surround sound*. With a non-compatible amplifier, the player can output 5.1ch analog signals from its 5.1CH OUTPUT jack for high quality audio enjoyment.
* Note that the DIGITAL OUT (COAXIAL) jack does not output 8ch signals.

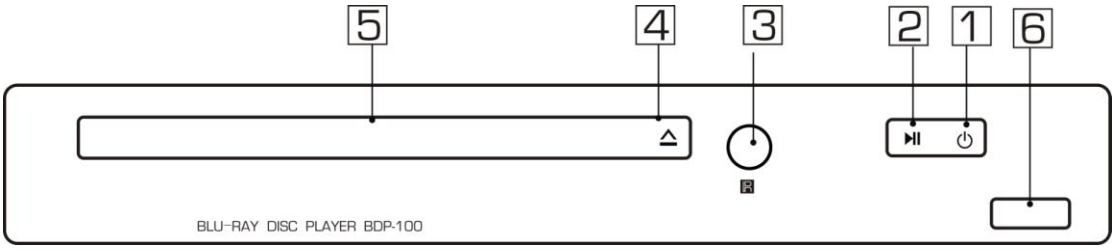
HDMI (High-Definition Multimedia Interface) digital interface

When connected to an HDMI-equipped display device using a single HDMI cord, the player can output both SD to HD video and multi-channel audio signals, in digital form without degradation.
The HDMI specification supports HDCP (High-bandwidth Digital Content Protection), a copy protection technology that incorporates coding technology for digital video signals.

Front & Rear Panel of BDP-100 2.0

Buttons on the remote and the player have the same function if they have the same or similar name.
For details, see the pages in parentheses.

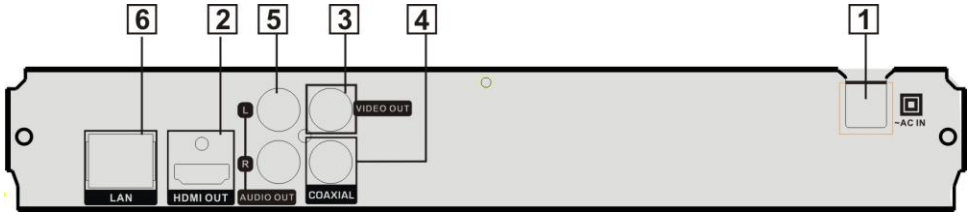
Front panel



1	⏻ (STANDBY) - Turns on the player, or sets to standby mode.
2	⏯ （PLAY /PAUSE) - Starts or Pauses playback.
3	IR sensor （Receive signals from Remote control）
4	⏏ (OPEN/CLOSE) - Opens or closes the disc tray.
5	Disc Tray
6	IR sensor （Receive signals from Remote control）

Rear panel

For connections, see page 10 to 16.

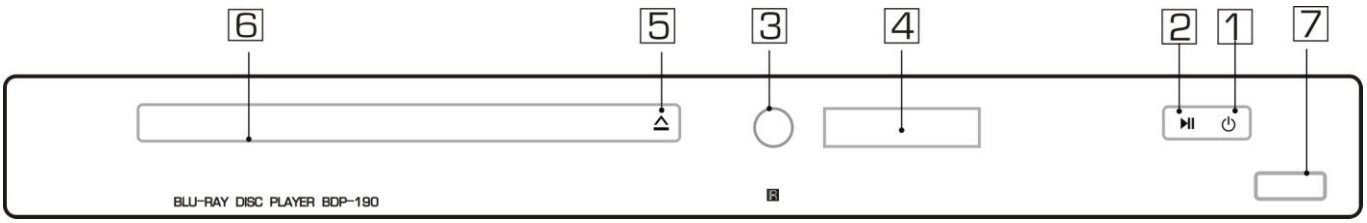


1	**AC IN terminal**
2	**HDMI OUT jack**
3	**VIDEO OUT jack**
4	**COAXIAL DIGITAL OUT jack**
5	**Audio Out （L/R）(for Model 2.0ch only)**
6	**Ethernet(LAN) port**

Front & Rear Panel of BDP-190 5.1

Buttons on the remote and the player have the same function if they have the same or similar name.
For details, see the pages in parentheses.

Front panel



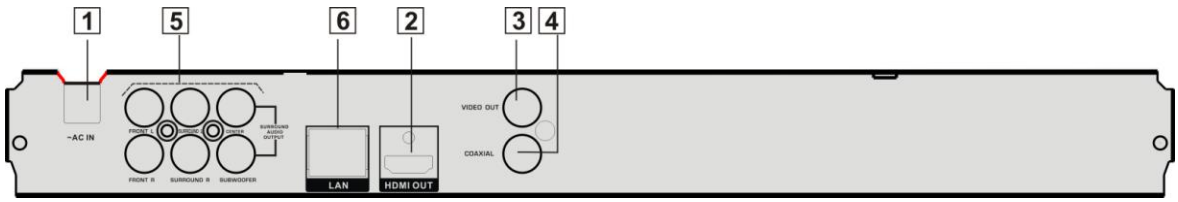
1	⏻ (STANDBY) - Turns on the player, or sets to standby mode.
2	⏯ （PLAY /PAUSE) - Starts or Pauses playback.
3	IR sensor （Receive signals from Remote control）
4	Front Panel Display
5	⏏ (OPEN/CLOSE) - Opens or closes the disc tray.
6	Disc Tray
7	IR sensor （Receive signals from Remote control）

Front panel display

1	▷ - Lights up during playback.
2	⏸ - Pause playback
3	dts - dts indicator
4	Playback information
5	DVD - DVD indicator示灯
6	BD - BD indicator示灯
7	DD - Dolby Digital 指示灯

Rear panel

For connections, see page 10 to 16.

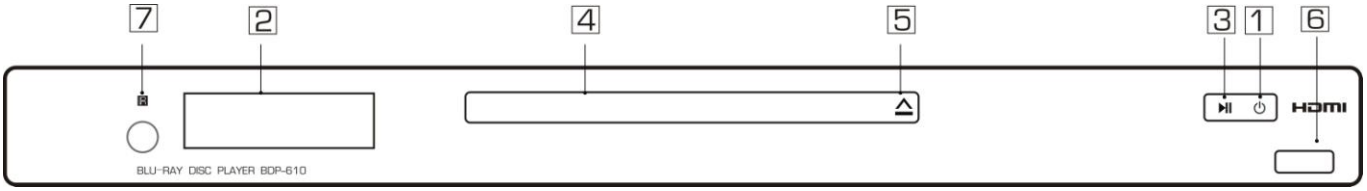


1	**AC IN terminal**
2	**HDMI OUT jack**
3	**VIDEO OUT jack**
4	**COAXIAL DIGITAL OUT jack**
5	**5.1ch Output、(**FRONT L & R SURROUND L & R, CENTER, SUBWOOFER)
6	**Ethernet(LAN) port**

Front & Rear Panel of BDP-610 7.1

Buttons on the remote and the player have the same function if they have the same or similar name.
For details, see the pages in parentheses.

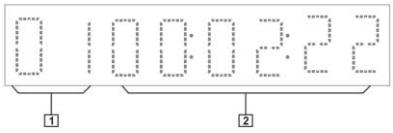
Front panel



1	⏻ (STANDBY) - Turns on the player, or sets to standby mode.
2	⏯ (PLAY /PAUSE) - Starts or Pauses playback.
3	IR sensor (Receive signals from Remote control)
4	Front Panel Display
5	⏏ (OPEN/CLOSE) - Opens or closes the disc tray.
6	Disc Tray
7	IR sensor (Receive signals from Remote control)

Front panel display

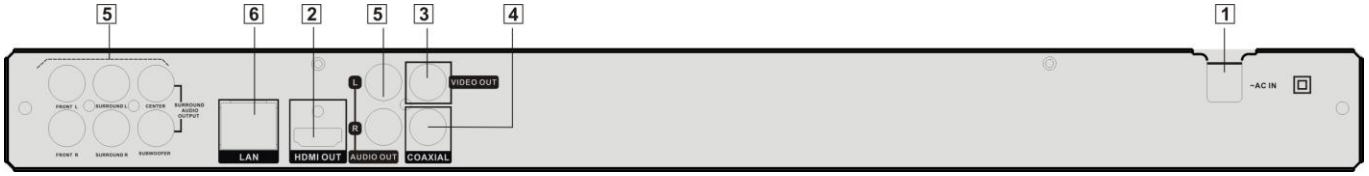
Example: When playing a DVD VIDEO or a BD-ROM
The playback information is displayed as follows.



1 Current title number
2 Elapsed time of the title

Rear panel

For connections, see page 10 to 16.

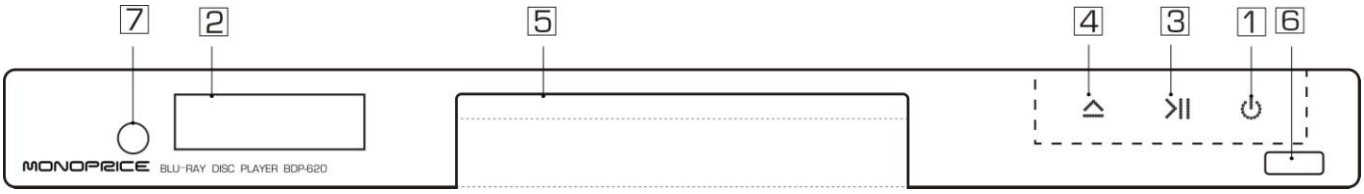


1	**AC IN terminal**
2	**HDMI OUT jack**
3	**VIDEO OUT jack**
4	**COAXIAL DIGITAL OUT jack**
5	**AUDIO OUT (L/R) jack**
5	**5.1ch Output、(**FRONT L & R SURROUND L & R, CENTER, SUBWOOFER)
6	**Ethernet(LAN) port**

Front & Rear Panel of BDP-620 7.1

Buttons on the remote and the player have the same function if they have the same or similar name.
For details, see the pages in parentheses.

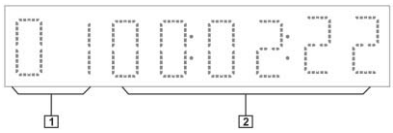
Front panel



1	⏻ (STANDBY) - Turns on the player, or sets to standby mode.
2	Front Panel Display
3	⏯ （PLAY /PAUSE) - Starts or Pauses playback.
4	⏏ (OPEN/CLOSE) - Opens or closes the disc tray.
5	Disc Tray
6	USB
7	IR sensor （Receive signals from Remote control）

Front panel display

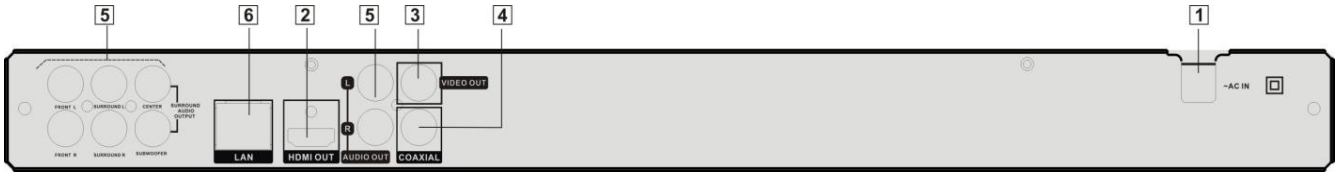
Example: When playing a DVD VIDEO or a BD-ROM
The playback information is displayed as follows.



1	Current title number
2	Elapsed time of the title

Rear panel

For connections, see page 10 to 16.



1	**AC IN terminal**
2	**HDMI OUT jack**
3	**VIDEO OUT jack**
4	**COAXIAL DIGITAL OUT jack**
5	**AUDIO OUT (L/R) jack**
5	**5.1ch Output、(**FRONT L & R SURROUND L & R, CENTER, SUBWOOFER)
6	**Ethernet(LAN) port**

Getting Started

Follow steps 1 to 6 to hook up and adjust the settings of the player.
For jack and button names, see “Front & Rear Panel……. ” (page 8-11).

Notes

• Plug cords securely to prevent unwanted noise.
• Refer to the instructions supplied with the components to be connected.
• You cannot connect this player to a TV that does not have a video input jack.
• Be sure to disconnect the mains lead of each component before connecting.
• Do not apply too much pressure on the connecting cords. Pushing against the cabinet wall, etc., may damage the cord.

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• Step 4: Connecting the Mains Lead……18
• Step 5: Preparing the Remote……...18
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Step 1: Unpacking

Check that you have the following items:

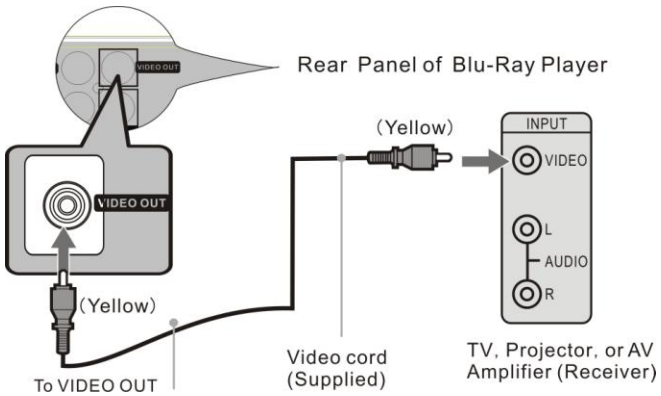
• A/ V cable (1)
• Mains lead (1)
• Remote commander (remote) (1)
• R03 (size AAA) batteries (2)
• User Manual (1)
• Warranty Card (1)

Step 2: Connecting the Video Cords/HDMI Cord

Connect this player to your TV monitor, projector or AV amplifier (receiver) using a video cord. Select one of the patterns Ⓐ through Ⓑ, according to the input jack on your TV monitor, projector or AV amplifier (receiver).
In order to view 1080p progressive signals with a compatible TV, projector, or monitor with an HDMI input jack, you must select pattern Ⓑ.

ⒶConnecting to a video input jack

Connect the supplied video cord (yellow) to the yellow (video) jack. You will enjoy standard quality images.

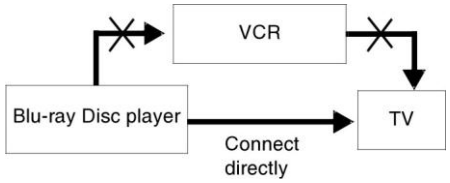


When connecting to a standard 4:3 screen TV

Depending on the disc, the image may not fit your TV screen. To change the aspect ratio, see page 15.

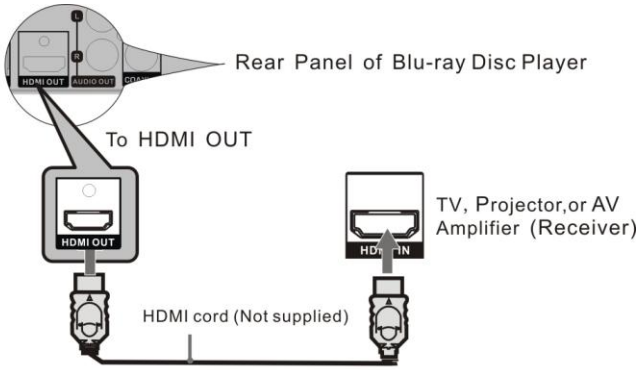
Note

Do not connect a VCR, etc., between your TV and the player. If you pass the player signals via the VCR, you may not receive a clear image on the TV screen. If your TV has only one audio/video input jack, connect the player to this jack.



Ⓑ Connecting to an HDMI input jack

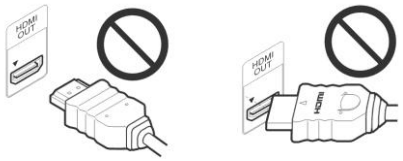
Use a certified HDMI cord (not supplied) to enjoy high quality digital pictures and sound through the HDMI OUT jack. You will enjoy higher quality pictures from 480p/576p/1080i, or 1080p (highest among the player output), if your TV, projector or AV amplifier (receiver) is compatible.



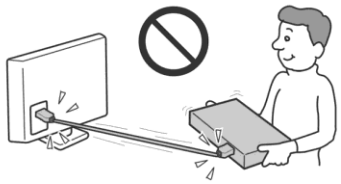
This Blu-ray Disc player incorporates High-Definition Multimedia Interface (HDMI™) technology. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Notes on connecting to the HDMI OUT jack

Observe the following as improper handling may damage the HDMI OUT jack and the connector.
• Carefully align the HDMI OUT jack on the back of the player and the HDMI connector by checking their shapes. Make sure the connector is not upside down or tilted.



• Be sure to disconnect the HDMI cord when moving the player.



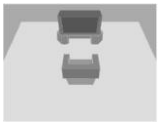
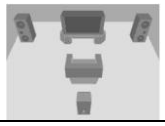
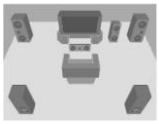
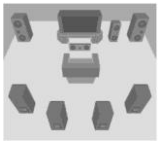
• If you place the player on the cabinet with the HDMI cord connected, do not apply too much pressure to the cabinet wall. It may damage the HDMI OUT jack or the HDMI cord.
• When connecting or disconnecting, do not screw in or rotate the HDMI connector.

Notes

• Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In the case of 480i/480p/576i 576p/720p/1080i /1080p scan picture problems, it is recommended that the user switch the connection to the 'HDMI Auto' output. If there are questions regarding our TV set compatibility with this model 480i/480p /576i/576p/720p/1080i/1080p Blu-ray Disc player, please contact our customer service centre.
• Be sure to use only an HDMI cord that bears the HDMI logo.

Step 3: Connecting the Audio Cords

Select the connection that best suits your system. Be sure to read the instructions for the components you wish to connect.

Connection	Your setup
A **TV**	
B **Stereo amplifier (receiver) and two speakers**	
C **AV amplifier (receiver) having a Dolby*1 Surround decoder and 3 to 6 speakers** • Surround effects: Dolby Surround	
D-1 **AV amplifier (receiver) with 5.1ch input jacks and 6 speakers** • Surround effects: Dolby Digital (5.1ch), DTS (5.1ch) **D-2** **AV amplifier (receiver) with a digital input jack having a Dolby Digital or DTS*2 decoder and 6 speakers** • Surround effects: Dolby Digital (5.1ch), DTS (5.1ch) **D-3** **AV amplifier (receiver) with an HDMI input jack having a Dolby Digital Plus, Dolby TrueHD, or DTS-HD High Resolution Audio decoder, and 8 speakers** • Surround effects: Dolby Digital Plus, Dolby TrueHD, DTS-HD High Resolution Audio bitstream	 

*1 Manufactured under license from Dolby laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

*2 <7.1声道>

Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380 6,226,616; 6,487,535; 7,392,195; 7,272,567; 7,333,929; 7,212,872 & other U.S.and worldwide patents issued & pending. DTS –HD, the Symbol, DTS –HD and the Symbol together are registered trademarks, & DTS-HD Master Audio | Essential are trademarks of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.

*2 （5.1 ch）.

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*2（2.0ch）.

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Notes about the HDMI OUT jack

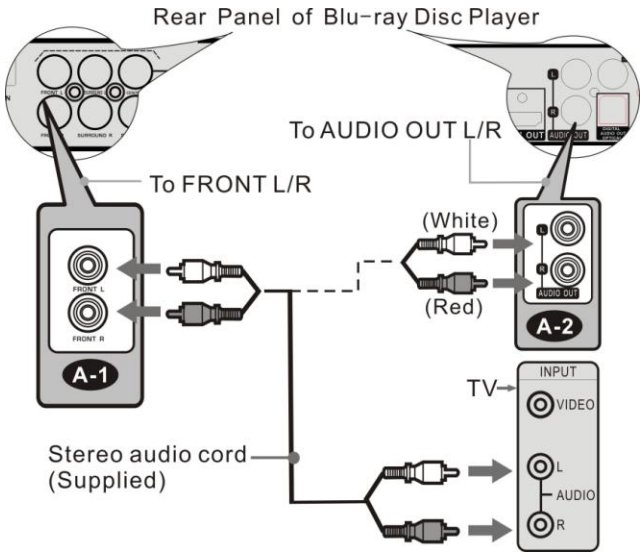
- When you connect the player to an AV amplifier (receiver) using an HDMI cord, you will need to do one of the following:
  –Connect the AV amplifier (receiver) to a TV with the HDMI cord.
  –Connect the player to the TV with a video cord other than an HDMI cord (video cord).
- When connecting to the HDMI OUT jack, carefully align the HDMI connector with the jack. Do not bend or apply pressure to the HDMI cord.
- The HDMI connection is compatible with 2ch Linear PCM signals (48 to 192 kHz, 16/20/24 bit), and 5.1ch Linear PCM signals (48 to 96 kHz, 16/20/24 bit)。

Note

If you connect a component that does not conform to the selected audio signal, a loud noise (or no sound) will come out from the speakers, which could damage your ears or speakers.

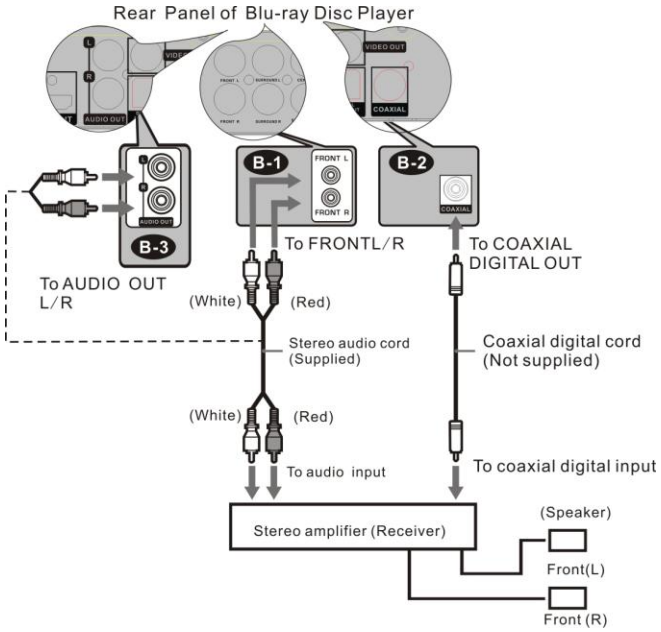
A Connecting to your TV

This connection will use your TV's speakers for sound.
A-1 is for 5.1ch only，and A-2 for 2.0 ch only.



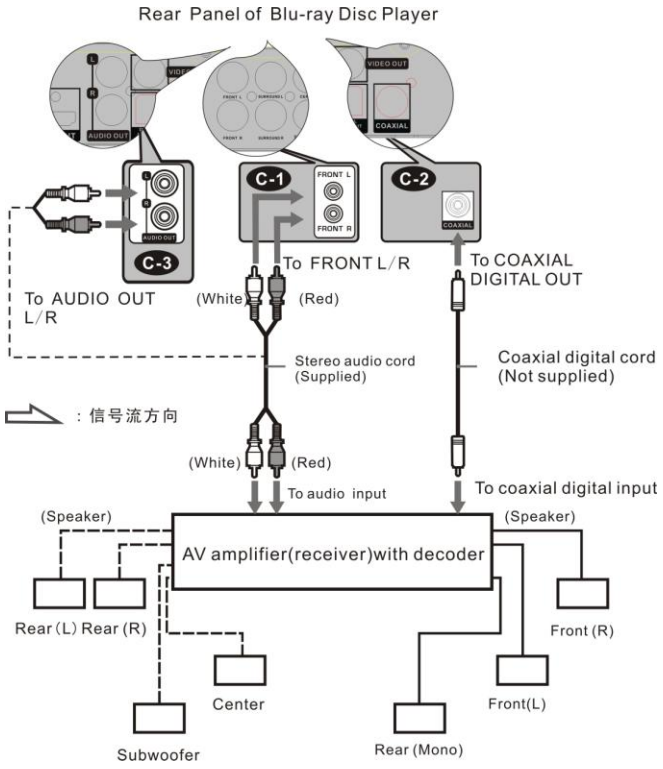
B Connecting to a stereo amplifier (receiver) and 2 speakers

If your stereo amplifier (receiver) only has audio input jacks L and R, use B-1 or B-3. If your amplifier (receiver) has a digital input jack, use B-2.



C Connecting to an AV amplifier (receiver) having a Dolby Surround decoder and 3 to 6 speakers

If your AV amplifier (receiver) only has L and R audio input jacks, use C-1 or C-3. If your amplifier (receiver) has a digital input
jack, use C-2 .
You can enjoy surround effects only when playing Dolby Surround audio or multi-channel audio (Dolby Digital or DTS) discs.



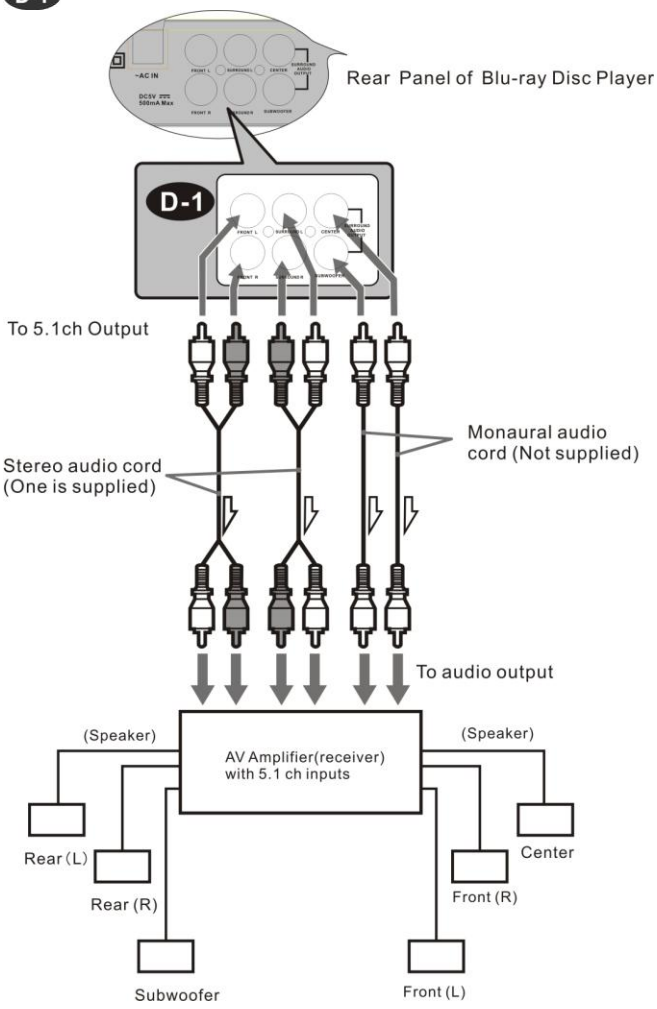
Hint
For correct speaker location, see the operating instructions of the connected components.

Note

When connecting 6 speakers, you do not need the “Rear (mono)” speaker above.

D-1 Connecting to an AV amplifier (receiver) with 5.1ch input jacks and 6 speakers

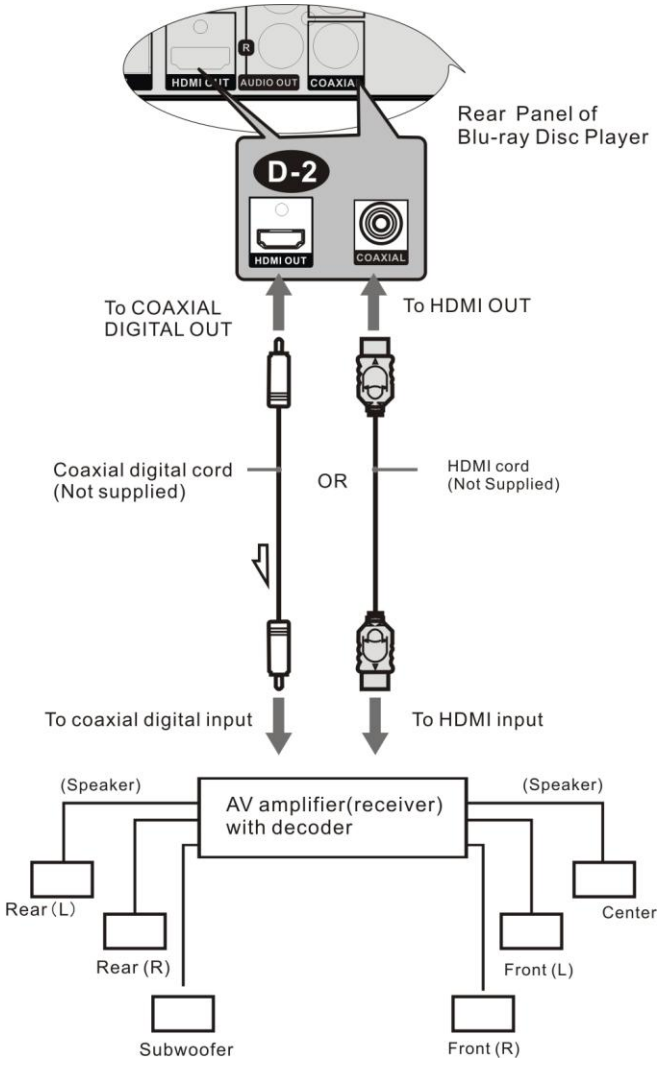
If your AV amplifier (receiver) has 5.1 channel inputs, use D-1



Hint
For correct speaker location, see the operating instructions of the connected components.

D-2 Connecting to an AV amplifier (receiver) with a digital input jack and 6 speakers

If you want to use the Dolby Digital, or DTS decoder function on your AV amplifier (receiver), connect to its digital jack using D-2. You can enjoy a more realistic audio presence.

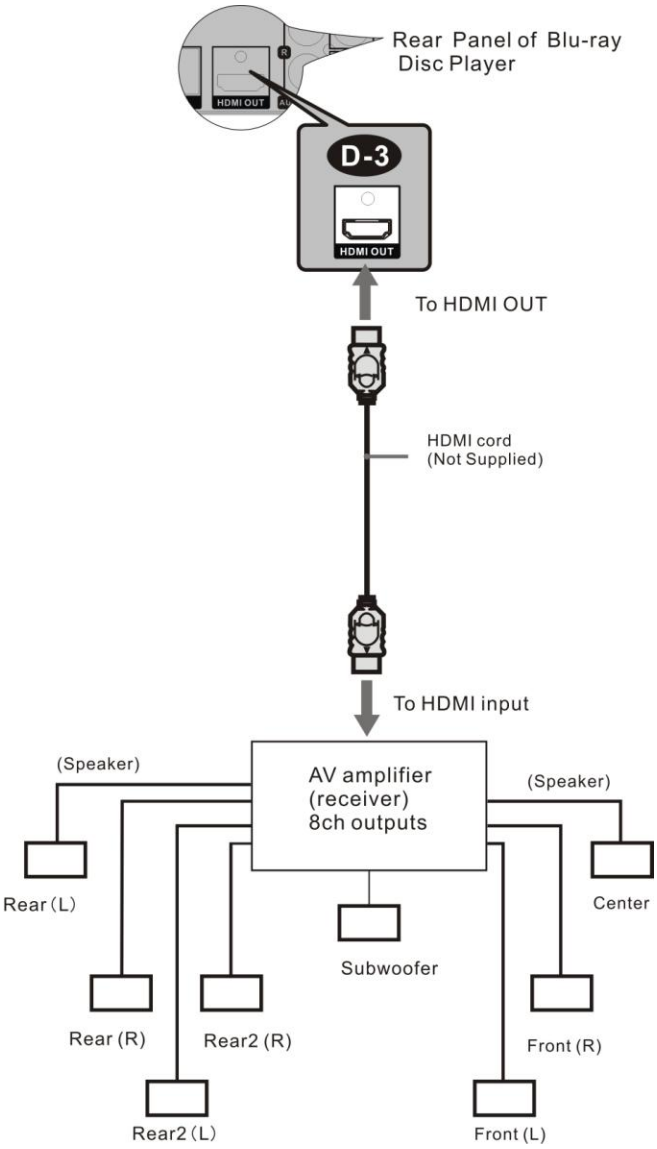


Hint

For correct speaker location, see the operating instructions of the connected components.

D-3 Connecting to an AV amplifier (receiver) with an HDMI input jack and 8 speakers

If your AV amplifier (receiver) accepts 8ch Linear PCM input with an HDMI connection, you can enjoy the surround sound using D-3.



Hint

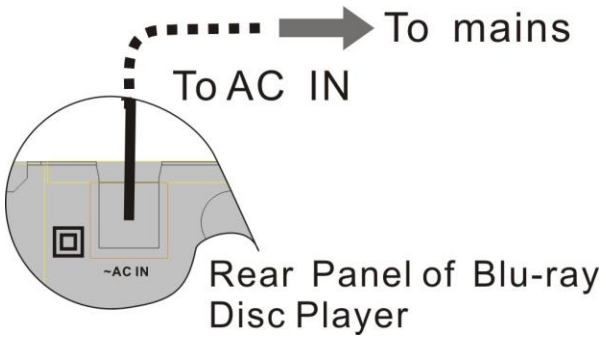
For correct speaker location, see the operating instructions of the connected components.

Note

Not all HDMI-compatible AV amplifiers (receivers) accept 8ch Linear PCM signals. See also the operating instructions supplied with the connected AV amplifier (receiver).

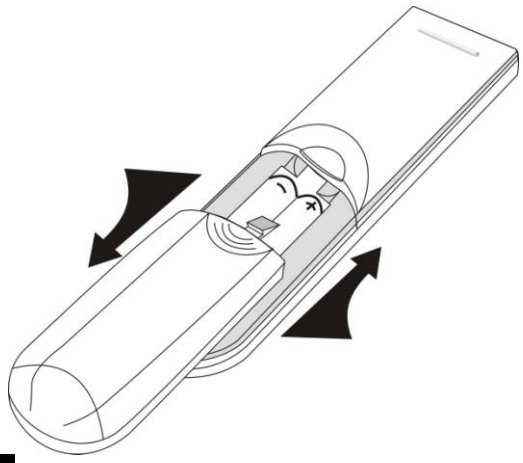
Step 4: Connecting the Mains Lead

After all of the other connections are complete, connect the supplied mains lead to the AC IN terminal of the player. Then plug the player and TV mains lead (power cords) into the mains.



Step 5: Preparing the Remote

You can control the player using the supplied remote. Insert two R03 (size AAA) batteries by matching the + and - ends on the batteries to the markings inside the battery compartment. When using the remote, point it at the remote sensor on the player
(page 27).



Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
- Do not expose the remote sensor to direct sunlight or a lighting apparatus. Doing so may cause a malfunction.
- If you do not use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Step 6: Pre-Setup

Follow the steps below to make the minimum number of basic adjustments for using the player. Make the settings below in the following order.

If you turn on the player first time：

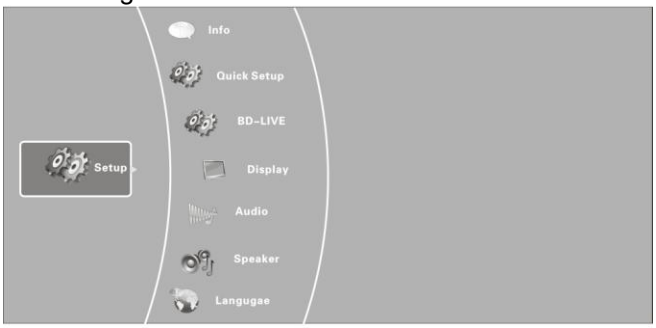
Initiatlizing will take 20 seconds, then enter standby mode automatically.

Please don't playback any disc if you operate the player first time！

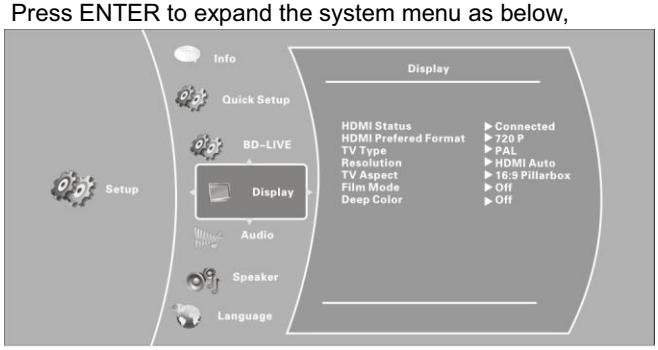
A Turn on the TV.

B Press ⏻ to turn on the player.
The player turns on after a moment.

C Switch the input selector on your TV so that the signal from the player appears on your TV screen.
The settings screen as below.



D Press ENTER to expand the system menu as below,



Use the UP or DOWN arrow button to select various menu item and press ENTER to access sub- menu item or change the parameters as your custom.

Hints

In order to configure the BD player for proper audio and video output, press the UP/DOWN arrow keys until one of the following setup menu categories is highlighted.

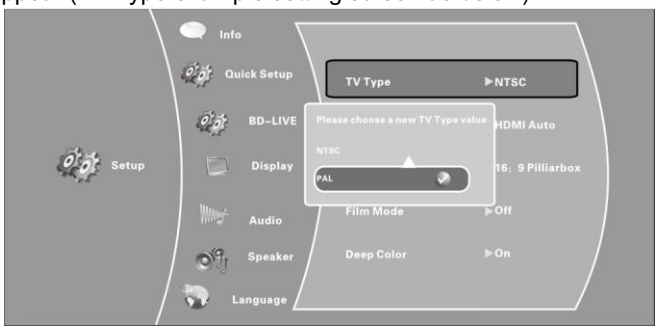
- Display
- Audio
- Speaker*1
- Language
- Parental
- System
- Network
- Info
- Quick Setup

- BD- Live

*1 speaker is for model v5.1ch & 7.1ch only.

1] Display Setup

The possible settings for “TV Type” are shown on the right-hand side of the screen.
Pressing the UP/DOWN arrow keys will result in a different option (TV Type, Resolution, TV Aspect, Film Mode and Deep color etc.) being highlight. The allowable setting will appear. Default setting will be highlighted, and the other possibilities will appear (TV Type example setting screen as below).

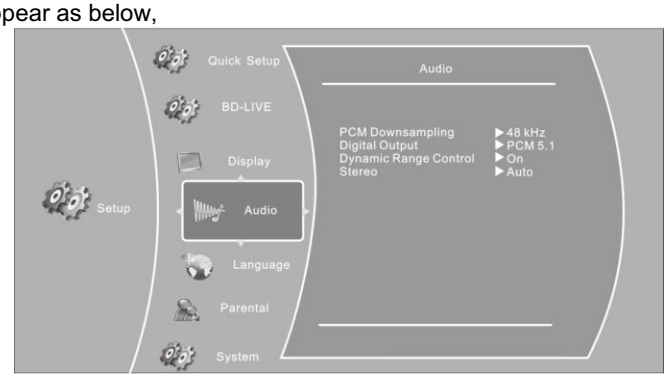


Press the UP/DOWN arrow keys until the desired setting is highlighted, then press the ENTER key. The new setting will be saved.

- **Select the “Resolution” for the connected TV, and press ENTER.**
  Select from “HDMI Auto”, “1080p”, “1080i”, “720p”, “576i” ,’’576p’“480p”, “480i” and press ENTER to save setting. Among them, “576i” ,’’576p’ is for PAL only,and “480p”, “480i” for NTSC only.
- **Select the TV Aspect ratio that matches your TV, and press ENTER.**
  Select from “16:9 Wide”, “16:9 Pillarbox”, “4:3 Pan and Scan” and “4:3 Letterbox” and press ENTER to save setting.
- **Turn on deep color to make them available for more c**olours and more precise reproduction of pictures. Select between ‘On’ and ‘Off ‘，and press ENTER to save setting.

[2] Audio Setup

Select “Audio” and press ENTER. The setting screen will appear as below,

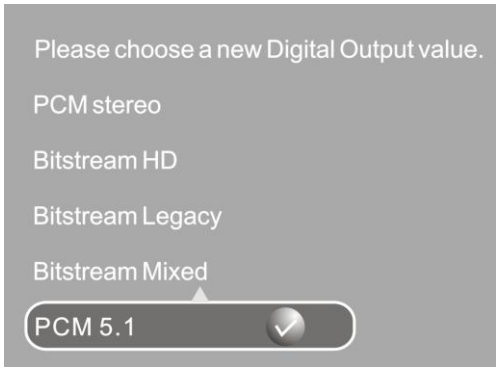


- **PCM Downsampling**
  You can use this menu item to tell the BD player whether your surround receiver can handle high-bitrate PCM signal over the SPDIF interface. This menu item has no effect if you connected your TV or surround receiver over HDMI. The setting can be OFF, 48KHz or 96KHz.

Hints:

If in doubt, consult your surround receiver’s manual or set to 48KHz.

- **Digital Output**
  You can tell the BD player what type of digital audio data to output over HDMI or SPDIF with this menu item.
  You can press the UP/DOWN arrow keys to select one of the following digital audio output format.



Note:
Above default setting is for model 5.1 ch, but for model 2.0ch, the default is [PCM stereo] under [Audio Setup].

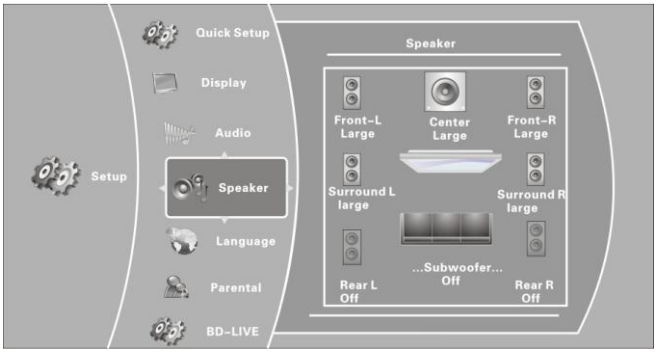
- **Dynamic Range Control**
  Dynamic Range Control means that you can allow the BD player to make the loud parts of a movie’s audio track quieter than they would be the theatre, without making the dialog of the actors any quieter. You can use the UP/DOWN arrow keys to turn dynamic range compression (loud noise quieting) ON, OFF or AUTO.

- **Stereo**
  This setting contain 3 options，Auto，stereo(LoRo)，and Surround Encoded(LtRt)，you can select desired one.

[3] Speaker Setup

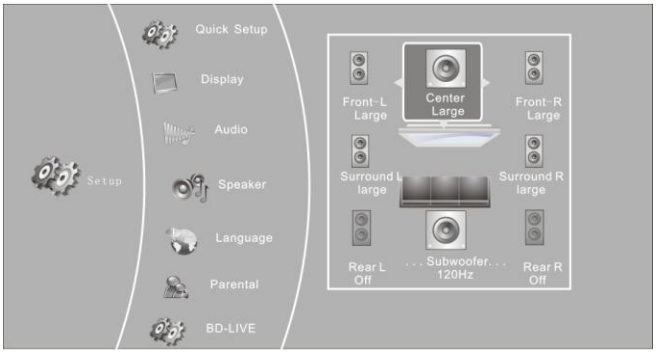
This option is only for model 5.1ch& 7.1ch.

Select “Speaker” and press ENTER. The setting screen will appear as below,



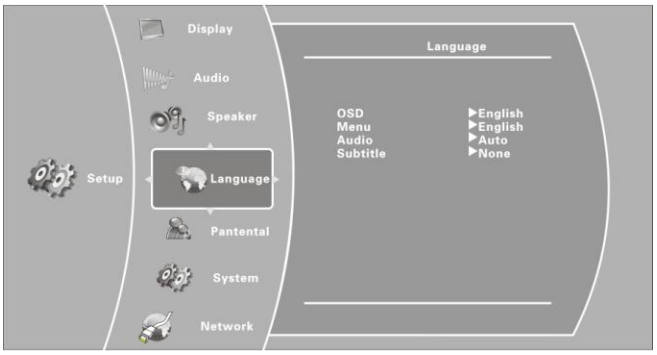
This menu item allows you to setup the speaker’s size to fit for your real living room and speaker system.

- **Testing the speaker connections**
  Once the speakers are connected to the system and properly configured, you can enter below picture to check and verify that the connections to the speakers are correct.



[4] Language Setup

Select “Language” and press ENTER. The setting screen will appear as below,



This menu item allows you to setup the language of the BD player. You can change default language of the OSD, MENU, AUDIO and SUBTITLE one by one.

- **OSD Language:** There are many languages for your selection.

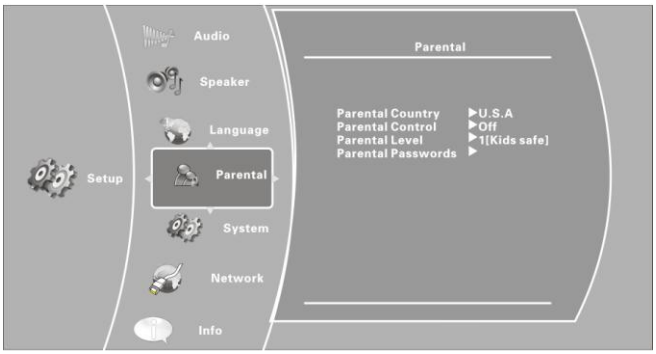
- **MENU Language:** There are many languages for your selection. Press the UP/DOWN arrow keys until the language which you desired is highlighted and press ENTER to save.

-
- **AUDIO Language:** There are many languages for your selection. Press the UP/DOWN arrow keys until the language which you desired is highlighted and press ENTER to save.

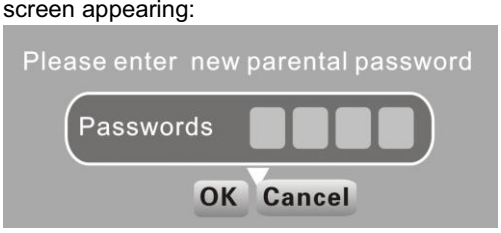
- **SUBTITLE Language:** There are many languages for your selection. Press the UP/DOWN arrow keys until the language which you desired is highlighted and press ENTER to save.

[5] PARENTAL Setup

The parental control setting screen as below,

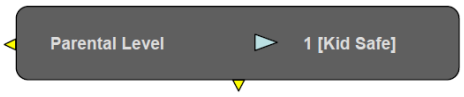


If parental control ***was already turned on***, attempting to change any of these items will first result in the following screen appearing:



The first time this screen appears, you should enter the default parental password, which is **0000**. (This can be changed later). Be advised that as you type these numbers, an "*" (asterisk) will appear on the screen instead of the numbers you are entering.
Once you enter the parental control password, you will be automatically returned to the parental menu.

- **Parental ON/OFF**
  To turn parental control ON or OFF!
- **Parental Level**
  Use this menu item to restrict playback of disks encoded with a rating level equal to or higher than the level you set. Parental Control *must be turned* ***on*** for this menu item to have an affect (see previous section).
  To change the Parental Level, from the parental menu, press the press the right arrow key until one of the parental menu items (Parental Level, Parental Password, Parental Control, or Parental Country) is highlighted. Then, use the up or down arrow keys until the **Parental Level** menu item is highlighted, as shown below:



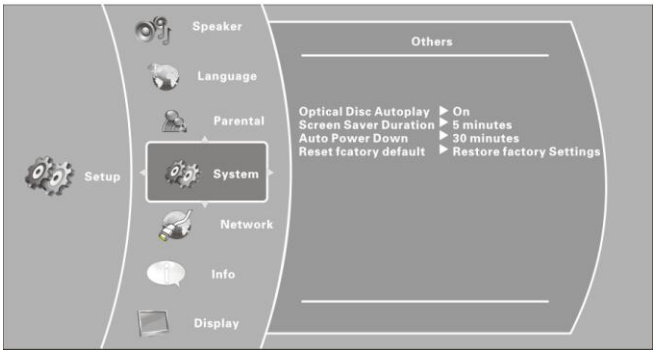
Use the up or down arrow keys to highlight one of the parental levels. Then, once the desired parental level has been highlighted, press the Enter key to save your selection.

- **Parental Password**
  To change the parental control password, from the parental menu, press the right arrow key until the **Parental Password** menu option is highlighted, as shown below:

Use the number keys on the remote to enter a 4-digit number for the parental password. Once this number has been entered, use the arrow keys to highlight the "OK" button, and then press the ENTER key.
Once a new Parental Password is saved, it must be re-entered any time someone attempts to change an item in the parental setup menu category.

[6] SYSTEM Setup

To set the player's other settings, from the "Settings" menu, press the right arrow key until the System menu choice is highlighted, as shown below:



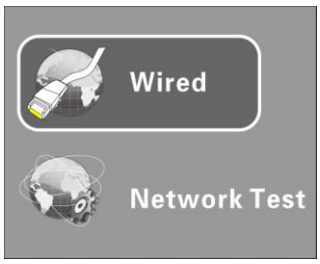
- **Optical Disk AutoPlay**
  This option is used to tell the BD player whether or not to start loading the main title menu of a disk as soon as the disk tray is closed.
- **Screen Saver Duration**
  User can turn off this feature, or choose the duration to start Screen saver picture **(see the screen saver instruction for details)**
- **Auto Power Down**
  User can select desired time for tuning off, for instance,you select 30 minutes, the player will be in standby mode after 30 munites.
- **Reset Settings**
  This setup menu selection will allow you to return all setup menu choices to the factory default settings.

Press the ENTER key. The following screen will appear:

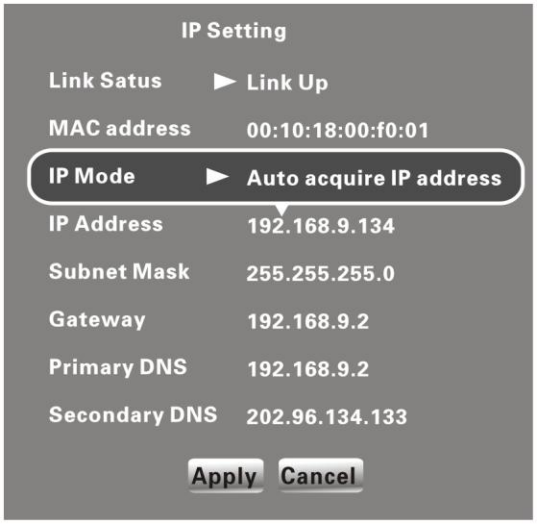
Use the arrow keys to choose "OK", then press the Enter key. Once you press "OK", all previously changed settings from other menus will go back to the original factory settings. At same time, if above menu is still on the screen, press 'RET' key on the remote to exit please.

[7] NETWORK Setup

In order to access BD-live content, the BD player must be connected to the Ethernet via the RJ-45 Ethernet connector on the rear of the player.



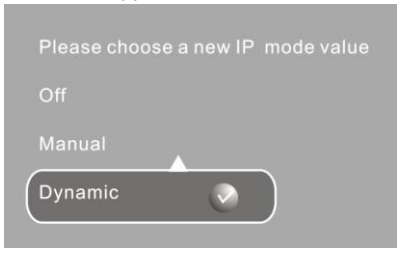
Use the up/down arrow keys to highlight the '**Wired'** option, and press enter. The following screen will appear:



Note: One player match only MAC address.
<MAC address> on above menu is just a example.)

- **IP Mode**

  Use this menu item to tell the BD player whether to obtain ethernet settings automatically from your internet service provider or router, or whether you will manually set them yourself.
  To set the IP mode, from the 'Network' menu, press the ENTER key. Then, use the up/down arrow keys, if necessary, until "IP Mode" is highlighted, press the ENTER key. The following screen will appear:



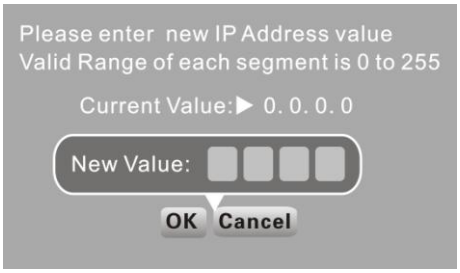
OFF: Choosing **OFF** to disables the BD player's ethernet capabilities

MANUAL: Choosing **Manual** allows you to manually enter a specific IP address, Gateway, and DNS server information for the BD player's Ethernet port. Select this option if your ISP (or home router) cannot assign Ethernet addresses to computers and other internet devices automatically.

DYNAMIC: Choosing **Dynamic** allows the BD player to obtain its Ethernet address and other parameters from your ISP (or router). Select this option if your ISP (or home router) uses DHCP to assign Ethernet addresses to computers and other internet devices.

- **IP Adress**

  Selecting the 'Manual' option brings up the menu screen shown below. You can then manually enter your IP address and other settings:



  Once you have manually entered the IP address, you must repeat this procedure for below items,

  - Subnet Mask
  - Gateway
  - Primary DNS
  - Secondary DNS

- **Network Test**

  Once the BD player has obtained its Ethernet settings (Dynamic mode), or you have manually entered the Ethernet settings (Manual mode), the player will attempt to contact an external website.

[8] INFO

This menu item will show the hardware and software(OS) version of the player.

[9] Quick Setup

User can set quickly following options,OSD ,Resolution,TV aspect to meet video and audio requirement from you through this option. Once you select this option,a menu display,[Yes, start quick setting] and [No, I will look through the whole setup menu]. After settings, exit menu according to promt on menu.

[10] BD-Live

- **BD-Live Internet Access**

  This player is capable of accessing content (movie trailers, previews, etc) from the internet. To control which websites the BD player is allowed to access additional content, from the System menu, press the right arrow key. Then, use the up/down arrow keys, if necessary, until "BD Live Internet Access" is highlighted.
  The option for selection as below,

  1） **Limit Access**
  Only allow the inserted Blu-ray disc to download content from a BD-Live™ website which has a valid online certificate. This will reduce the changes of downloading malicious content onto the Blu-ray player.

  2） **Always Allow Access**
  Allow the BD the inserted Blu-Ray disk to access content from all BD-Live internet sites whose internet address is encoded onto the disk. There is no danger of malicious code download from valid commercial BD disks, but choosing this option and downloading BD-live content via illegally authored BD disks, or disks obtained from questionable sources, could result in malicious code being downloaded onto the player.

  3） **Prohibit Access**
  Blocks the inserted Blu-Ray disk from accessing BD-Live content over the internet.

- **Blu-ray Storage**

  This option is used to tell the BD player whether or not to use an inserted USB stick to store BD-Live content (movie trailers, additional scenes, etc). To control whether a Blu-Ray disk's BD-Live content is saved on an external USB stick, from the System menu, press the right arrow key. Then, use the up/down arrow keys, if necessary, until "BDLive Storage (USB)" is highlighted, as shown below:

- **Erase Blu-ray Storage**

  This option is used to erase the BD-Live content stored on USB stick.

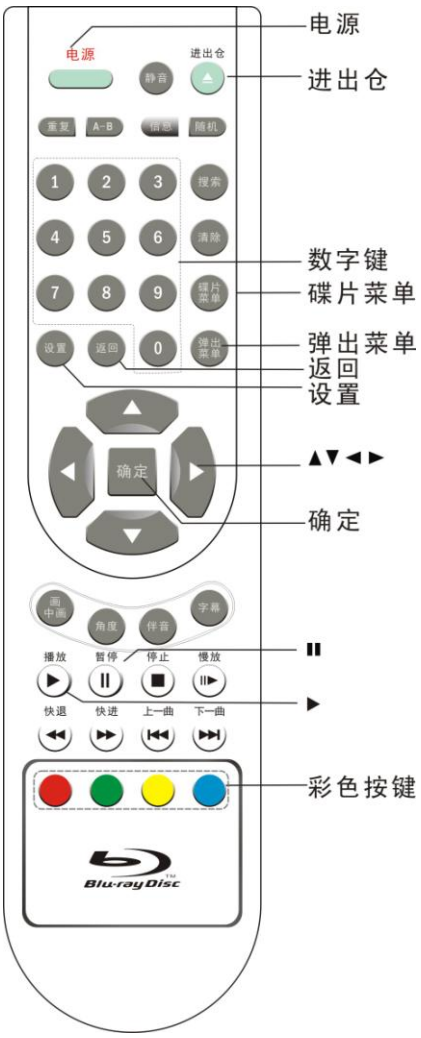
Basic Operations

Most of the BD playback operations are similar to DVD. This section covers BD/DVD/CD playback in general, together with the basic operation of the player.
See also page 23 for video, 24 for music, 25 for photo files.
For operations using the remote, a complete list is located on page 21.

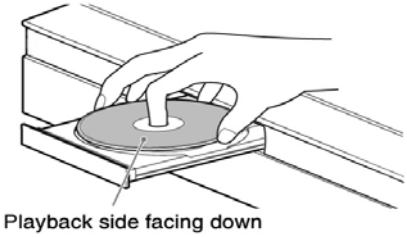
• Playing a Disc. 23
• Guide to the Remote. 24
• Searching Using the Remote. 26
• Checking the Disc Information 26
• Digital Audio, Video and Photo Files Playback From A Disc or USB Memory Disk 27

Playing a Disc

BD DVD CD



1 Press ⏻. The player turns on after a moment.
2 Switch the input selector on your TV so that the signal from the player appears on your TV screen.
3 Press ⏏ to open the disc tray and the disc tray opens.
4 Place a disc on the disc tray with the playback side facing down.


Playback side facing down

5 Press ⏏ to close the disc tray. Wait a short while until the disc type appears on the front panel display.

6 Press ▷ to start playback. For more information about the remote's operations, see page 24.

Buttons	Details
⏸	Pauses playback, or restarts playback from the same point.
■	Stops playback, or cancels the resume point when pressed twice.
▷	Starts or restarts playback from the previous stop point.

7 When you finish playing, press ⏏ to open the disc tray.

8 Remove the disc, and press ⏏ again to close the disc tray.

9 Press ⏻ to turn off the player.

To use the BD's or DVD's menu

When you play a BD-ROM, DVD VIDEO, or a finalized DVD+RW, DVD-RW (Video mode), DVD+R, or DVD-R (Video mode), you can display the disc's menu by pressing TOP MENU or POP UP/MENU. Some BDs/DVDs display the menu automatically. Either cases, navigate through the menu using∨/∧/>/<>, ENTER, or the number buttons and the colour buttons as indicated by the disc's on-screen instructions. The BD menu is operable without interrupting playback.

To play restricted BDs

Change the "BD Parental Control" setting (page 20).

To play restricted DVDs

For a restricted DVD, the display asks for the password. For "DVD Parental Control" setting, see page 20.

1 Enter your four-digit password using the number buttons.

2 Press ENTER to confirm.

To register or change the password, see page 21

Notes about Resume Play

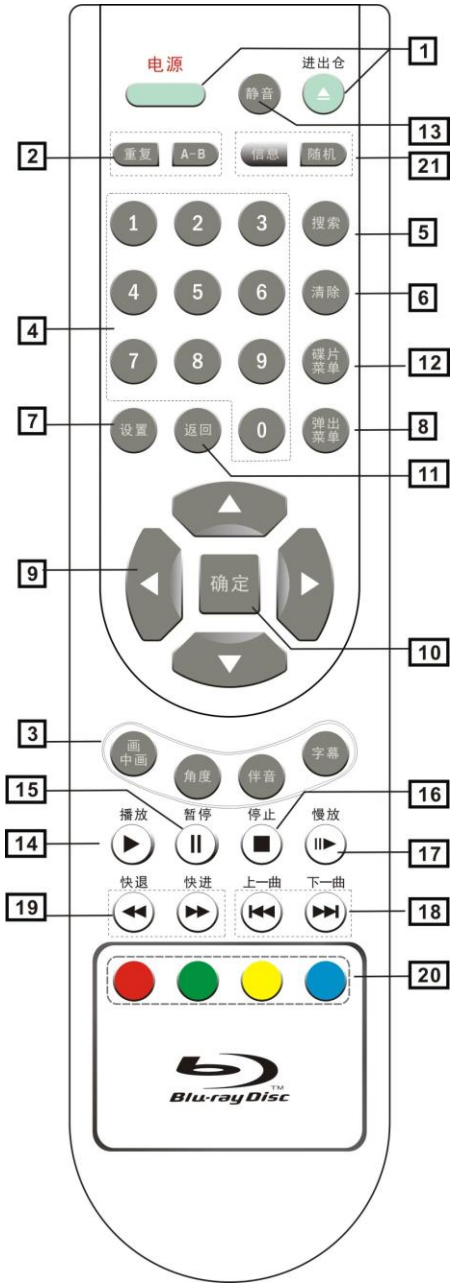
- Playback starts from the beginning if the title has not been played or the previous stop point is cancelled.
- The stop point is cancelled when:
  - -you change the settings on the player.
  - -you turn off the player (BD-ROM and DATA DVD only).
  - -you press ■ twice.
  - -you open the disc tray.
  - -you use a search function.
- The player remembers the stop point for one title/track/file only. On a music CD, playback resumes from the beginning of the track.
- Depending on the disc, the Resume function may not work.

About the screen saver function

To prevent damage to your display device (ghosting), a screen saver image appears when the player is left unattended, has no disc inserted, or no title/slideshow is displayed for 5 minutes (see [System]->[Screen Saver Duration] for other options) and the screen saver has been turned on. To cancel, set to 'Off ' on screen saver duration menu.

Guide to the Remote

The following covers all of the remote's functions. Refer to the list when necessary.



1 ⏏ **(open/close)** Opens/closes the disc tray.

⏻ **(on/standby)** Turns on, or sets the player to standby mode.

2 **REPEAT**

Once playback begins, pressing the REPEAT key on the remote will allow you cycle through the various repeat modes:

- Pressing repeat until (REPEAT FILE) appears allows you to 'loop' the current file
- Pressing repeat until (REPEAT All) appears allows you to 'loop' all the videos selected
- Pressing repeat until (REPEAT OFF) appears stops the repeat function

A-B

When a disk is playing, pressing this button once will save a "start point" for repeating playback. Pressing this button again will save an "end point" for repeating playback. Playback will repeat from the start point to the end point.
To stop playback from repeating, the REPEAT button should be pressed until "Repeat: OFF" is shown on the TV.

Note：[Repeat] & [A-B] may be not available on some disc due to itself configuration or because the disc itself can not support the two features. User can contact the disc suppliers to acquire the info.

3 **AUDIO***1

– Selects the sound track or the language track on a BD/DVD.

*1 When playing MPEG-2 movie files or music files on a DATA DVD, or a music CD, you cannot use this button.

SUBTITLE

– Selects the subtitle language on a BD/DVD.

ANGLE

– Switches to other viewing angles when available.

BONUS View*2

– Switches BD disc to BONUS VIEW mode

SEC.SUB*3

– Switches BD disc to **sec.sub mode**

SEC.AUD*4

– Switches BD disc to sec.aud mode .

***2 *3*4 keys will work only when playing BD disc With BONUS view feature.**

4 **Number buttons**

- Enters the title/chapter numbers, etc.

5 **GOTO**

- This button is used with the numeric keypad to jump to a specific track on an audio CD.

6 **CLEAR**

- When entering numeric values via the numeric keypad, this button is used to clear a number entered incorrectly.

7 **SETUP**

- Invokes the setup menu of the BD player. This keywill not work during disk playback (you must STOP playback first)

8 **MENU**

- Pressing this key will immediately stop playback, and bring up the main, or 'top' menu of the BD or DVD disk.

9 **Menu Navigation Keys**

- These keys are used when navigating the menus on BD and DVDs. They are also used for navigating the setup menus for the BD player.

10 **ENTER**

- Enters the selected item.

11 **RETURN**

- When navigating files on a data CD or USB stick, pressing this button will return you to the previous folder or menu.

12 **TOP MENU**

- Pressing this button will go to 'top' menu of the BD or DVD disk

13 **MUTE**

- No sounds output after pressing this key.

14 **VOLUME -/+**

- Pressing the up (+) half of this button will increase the volume of the BD player's audio output.
- Pressing the down(-) half of this button will decrease the volume of the BD player's audio output.

15 **PLAY**

- Pressing this button will start up play or resume playback.

16 **PAUSE**

- Pressing this button will pause audio and video playback.

17 **STOP**

- Pressing this button will This button stops playback of a BD/DVD movie or CD audio track.

18 ⏮/⏭ **(previous/next)*5**

-Skips to the previous/next chapter, track, or file.

19 ◀◀/▶▶ **(scan)*2**

- Scans backwards or forward. The speed changes when pressed repeatedly.

*2 *Depending on the disc or file type, the function may not work or the scan speeds may differ.*

20 **Colour buttons (RED/GREEN/YELLOW/BLUE)**

- Short cut keys for selecting items on some BD's menus (can also be used for BD's Java interactive operations).

21 **RANDOM**

- Used for random playback of tracks on an audio CD.

INFO

- Pressing this button will show the title number, chapter number, and elapsed time for BD and DVD playback.

22 **STEP/SLOW**

- Plays in slow motion or stop motion. To return to normal play, press ▷.

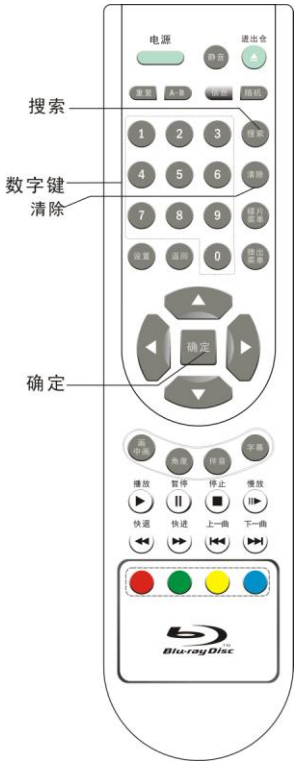
• To play in slow motion

When the disk is playing normally, press the pause button on the remote to pause playback. When the player is paused, pressing the **SLOW** button on the remote will cause the video to play back at ½ speed. Pressing the button again will cause the video to play back at ¼ speed. Pressing the button a third time will cause the video to play back at 1/8th speed. Pressing ▷ during slow play will resume playback at normal speed.

Searching using the remote

BD DVD DATA DVD CD

You can search by entering the title/chapter/track number or the time code (elapsed time from the beginning of the disc).



To search for a title, chapter, or track (BD-ROM, DVD VIDEO, CD only)

1 Press GOTO and enter the title number using the number buttons while the player is in playing mode.
- To search for a chapter, enter the chapter number during playback.
- To search for a track, enter the track number during playback. If you make a mistake, press CLEAR once and re-enter.

2 Press ENTER to start playback.

To search for a specific point (BD-ROM, DVD VIDEO, DATA DVD only)

1 During playback, press GOTO repeatedly until "Gototime" appears.

2 Enter the time code using the number buttons.
Enter the time in minutes and seconds (e.g., '13020' for 1 hour, 30 minutes and 20 seconds). If you make a mistake, press CLEAR once and re-enter.

3 Press ENTER to start playback.

Note

Depending on the DVD VIDEO/BD-ROM/DATA DVD/CD, these search functions may not work.

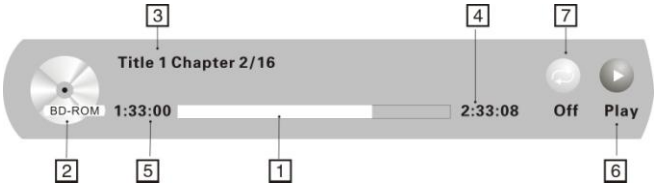
Checking the Disc Information

BD DVD DATA DVD CD

You can check the title/chapter/track information including video transmission rate etc., by pressing INFO button. The information differs depending on the disc type and the player status.

1 Press INFO.

Example: When playing a BD-ROM.



The following information appears:

1 Playback status
2 Disc type(BD-ROM/DVD/CD-DA)
3 Title information
- Currently playing title number/currently playing chapter number.
- Total number of chapters within the title.

4 Total playback time of the title.
5 Elapsed time of the current title
6 Play mode
7 Repeat mode

Digital Audio, Video and Photo Files Playback From a Disc or USB Memory Disk

[1] Introduction

This section explains how to play back PC-type audio, pictures, and video files that have been placed onto a disk or USB memory .

[2] Supported Features

The following features are supported by the media player
Video Player:

- Pause, Resume, Stop, Fast Forward, Rewind, Repeat
- Skip to next video, Skip to previous video

Audio Player:

- Music Pause, Resume, Stop, Fast Forward, Rewind, Repeat
- Skip to next song, Skip to previous song

Photo Viewer:

- Thumbnail Diplay
- Image Slideshow

[3] Supported File Types

The files supported by the BD player are:

Videos

• .xvid files
• **AVI files**(Partly Support)

Music:

• .wma files

Photos:

• .jpg files
• .jpeg files
• .png files

Subtitle:

UTF-8 only. Other internal subtitle formats (SSA, ASS, ANSI) are not supported.

[4] Setting up for Playback

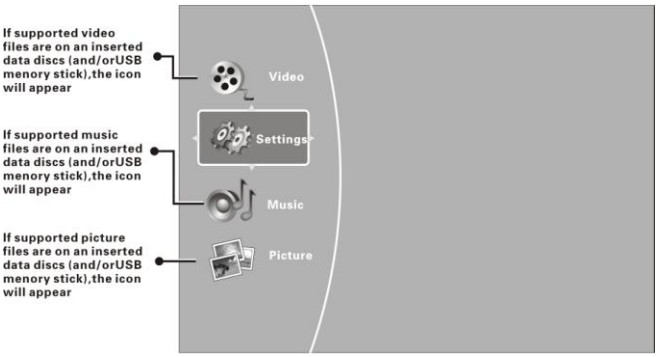
Many audio, video, and/or picture files that can be viewed on a personal computer can also be played back on this BD player. This is accomplished by first putting the audio, video, or picture file on a "DATA DISC" or USB memory. The supported disc types as below,

• CD
• DVD-R
• DVD-RW
• DVD+R
• DVD+RW
• BD-R
• BD-RE

- **Movie(Video) File format support list as below,** "*.wmv", "*.xvid" ".avi" (Partly Support)
- **Song(Audio) File format support list as below,** "*.wma",
- **Photograph file format support list as below,** "*.jpg", "*.jpeg", "*.png",

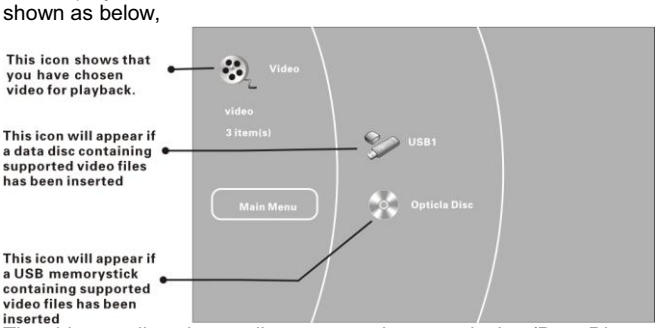
Note: * The file or file format marked with ''Partly support" may not be played due to their discrepant way of coding.

When a data disk or USB memory stick containing picture, audio, or video files is inserted into the BD player, the menu screen will display icons indicating that video, music, or picture files are available for playback, as shown below(Main Screen):

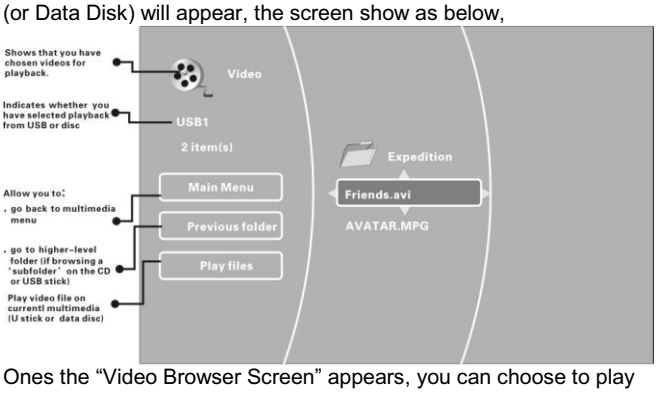

If supported video files are on an inserted data discs (and/orUSB menory stick),the icon will appear
If supported music files are on an inserted data discs (and/orUSB menory stick),the icon will appear
If supported picture files are on an inserted data discs (and/orUSB menory stick),the icon will appear
Video
Settings
Music
Picture

[5] Video File Playback

To playback video files after inserting the data disk (or USB memory stick), you should see a menu similar to what is show in Main Screen. Use the arrow keys to highlight "Videos," and then press Enter.
A new menu (the Video Media Selector) will appear, asking if you wish to play back videos from a data disk or a USB stick. The screen shown as below,


This icon shows that you have chosen video for playback.
This icon will appear if a data disc containing supported video files has been inserted
This icon will appear if a USB memorystick containing supported video files has been inserted
Video
video
3 item(s)
USB1
Main Menu
Opticla Disc

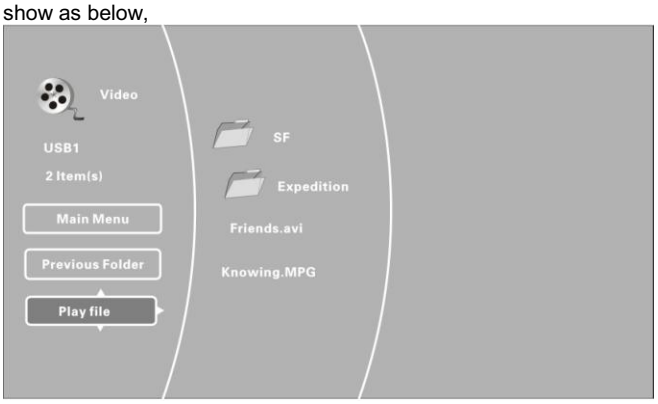
The video media selector allows you to choose a device (Data Disc or USB Memory Disk) to use for video playback. Use the arrow keys to navigate to the USB (or disk) icons, and press the Enter key. A list of the folders and supported video files in the *top folder* of the USB disk (or Data Disk) will appear, the screen show as below,


Shows that you have chosen videos for playback.
Indicates whether you have selected playback from USB or disc
Allow you to:
, go back to multimedia menu
, go to higher-level folder (if browsing a 'subfolder' on the CD or USB stick)
Play video file on currentl multimedia (U stick or data disc)
Video
USB1
2 item(s)
Main Menu
Previous folder
Play files
Expedition
Friends.avi
AVATAR.MPG

Ones the "Video Browser Screen" appears, you can choose to play back all files or play a single file. 'Previous folder' will be replaced by **Media Menu i**f USB is also connected to the player when play disc with multimedia files.

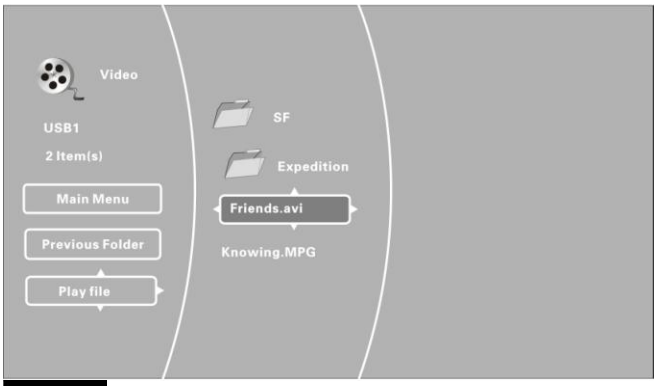
5.1 Playing Back Multiple Video Files

Choosing the “play files” selection in the leftmost circle，then press ENTER to play all the files on the USB disk (or data disc) , the screen show as below,



5.2 Playback Individual Video Files

To play individual video files on USB disk or data disc, navigate through the files and folders using the arrow keys, to highlight the file you wish to play, then press ‘Enter’.



Note

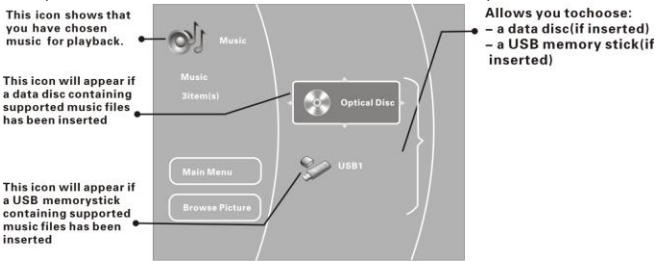
- Once playback begins, pressing the REPEAT key on the remote will allow you cycle through the various repeat modes.
  - Pressing repeat until (REPEAT FILE) appears allows you to ‘loop’ the current file
  - Pressing repeat until (REPEAT All) appears allows you to ‘loop’ all the videos selected
- Pressing repeat until “Repeat Off” appears stops the repeat function.

[6] Audio File Playback

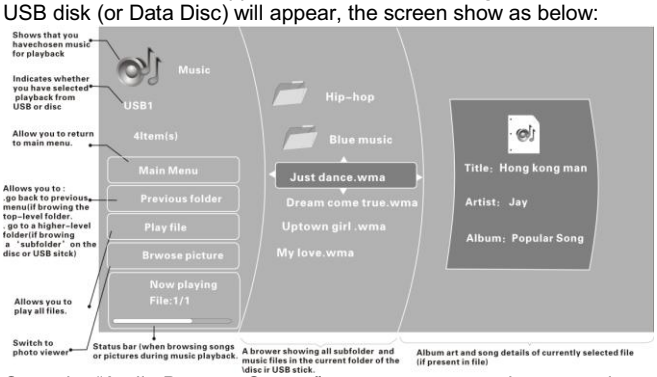
The BD player can play back wma music files that have been burned onto a data disk, DVD±R, DVD±R/W, or BD-R.

6.1 Selecting a Source (USB disk or Data Disc) for playing audio files.

To play back audio files, after inserting the data disk (or USB memory stick), you should see a main menu.Use the arrow keys to highlight “Music,” and then press “ENTER”.A new menu (the *Audio Media Selector*) will appear, asking if you wish to play songs from a Data Disk, or a USB disk. The screen will show as below,


This icon shows that you have chosen music for playback.
This icon will appear if a data disc containing supported music files has been inserted
This icon will appear if a USB memorystick containing supported music files has been inserted
Music
Music
3item(s)
Optical Disc
USB1
Main Menu
Browse Picture
Allows you tochoose:
– a data disc(if inserted)
– a USB memory stick(if inserted)

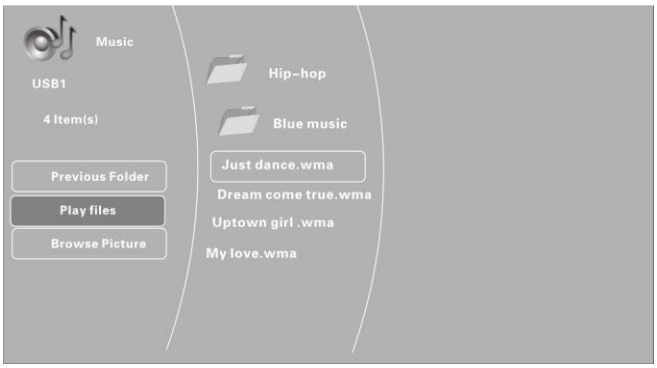
The audio media selector allows you to choose a device (data disk or USB disk) to use the for audio playback. Use the arrow keys to navigate to the USB (or disk) icons, and then press the Enter key. A list of the folders and supported audio files in the ***top folder*** of the USB disk (or Data Disc) will appear, the screen show as below:


Shows that you havechosen music for playback
Indicates whether you have selected playback from USB or disc
Allow you to return to main menu.
Allows you to : ,go back to previous menu(if browing the top-level folder. , go to a higher-level folder(if browing a 'subfolder' on the disc or USB sitck)
Allows you to play all files.
Switch to photo viewer
Music
USB1
4Item(s)
Main Menu
Previous folder
Play file
Brwose picture
Now playing File:1/1
Status bar (when browsing songs or pictures during music playback
Hip-hop
Blue music
Just dance.wma
Dream come true.wma
Uptown girl .wma
My love.wma
A brower showing all subfolder and music files in the current folder of the \disc ir USB stick.
Title: Hong kong man
Artist: Jay
Album: Popular Song
Album art and song details of currently selected file (if present in file)

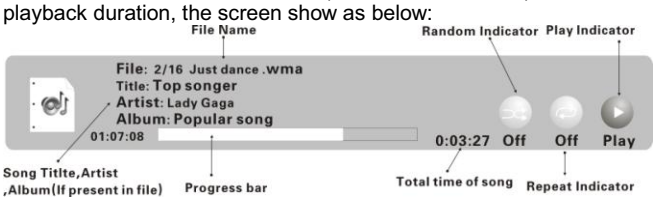
Once the “Audio Browser Screen” appears, you can choose to play back all files, or play back a single file.

6.2 Playing Back Multiple Audio Files

Choosing the ‘play files’ selection in leftmost circle from below pictuire, then press ENTER key to play all the files on the USB disk (or Data Disc).



Once a song starts playing, playback status will appear, showing the title, artist, album art, album name(If available in the file), and playback duration, the screen show as below:



During playback of a song, pressing an ‘arrow’ key will remove the audio playback status screen, and take you back to the browser screen.

6.3 Playing Back Individual Audio Files

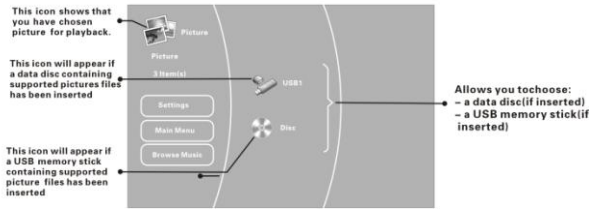
To play individual songs on the USB stick or data disk, navigate through the files and folders using the arrow keys, highlight the file you wish to play, then press ‘Enter’.

[7] Viewing Photographs

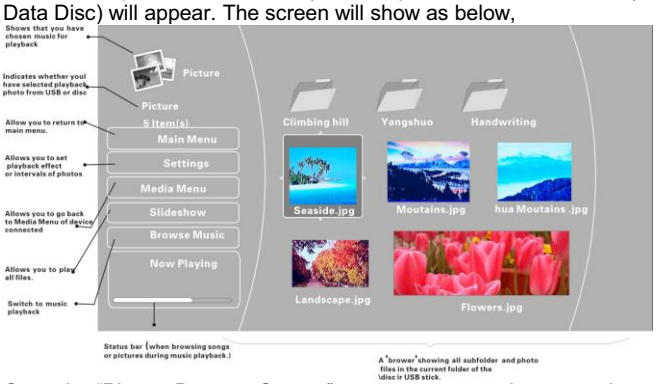
The BD player can be used to view digital photograph files that have been burned onto a data disk, DVD±R, DVD±R/W, or BD-R.

7.1 Selecting a Source (USB disk or Data Disc) for viewing Photos.

To view photographs, after inserting the data disk (or USB memory stick), you should see a menu similar to what is shown in Figure 6-1. Use the arrow keys to highlight “Pictures” and then press Enter.
A new menu (the Picture Media Selector) will appear, asking if you wish to view pictures from a data disk (if one was inserted into the tray), or a USB stick (if one was inserted in the USB slot). The screen will show as below,


This icon shows that you have chosen picture for playback.
This icon will appear if a data disc containing supported pictures files has been inserted
This icon will appear if a USB memory stick containing supported picture files has been inserted
Allows you tochoose:
– a data disc(if inserted)
– a USB memory stick(if inserted)
Picture
Settings
Main Menu
Browse Music

The picture media selector allows you to choose a device (Data Disc or USB Disk) to use for viewing pictures. Use the arrow keys to navigate to the USB (or Disk) icon, and then press the ENTER key. A list of the folders and supported picture files (Along with thumbnail views of the pictures themselves) in the top folder of the USB disk (or Data Disc) will appear. The screen will show as below,



Once the “Picture Browser Screen” appear, you can choose to play back all files, or play back a single files.

7.2 Playing Back Multiple Picture Files

Choosing the ‘slideshow’ selection in leftmost circle from below picture,then press ENTER key to play all the files on the USB disk. (or Data Disc)

Additional Information

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Troubleshooting

If you experience any of the following difficulties while using the player, use this troubleshooting guide to help remedy the problem before requesting repairs. Should any problem persist, consult your nearest retail dealer.

Picture

There is no picture/picture noise appears.

➡Re-connect the connecting cord securely.
➡The connecting cords are damaged.
➡Check the connection to your TV and switch the input selector on your TV so that the signal from the player appears on the TV screen.
➡The disc is dirty or flawed.
➡If the picture output from your player goes through your VCR to get to your TV or if you are connected to a combination TV/VIDEO player, the copy-protection signal applied to some BD/DVD programmes could affect picture quality. If you still experience problems even when you connect your player directly to your TV, try connecting your player to your TV's S VIDEO input.
➡Depending on the disc, the picture quality may be poor when the **Resolution [settings>Display]** setting is set to other than "480i,"even when the player is connected to a progressive or HD TV using a component cord or an HDMI cord. If this happens, switch **Resolution** to "480i".
➡When playing a double-layer DVD, the video and audio may be momentarily interrupted at the point where the layers switch.

There is no picture or picture noise appears when connected to the HDMI OUT jack.

➡Try the following:
①Turn the player off and on again.
②Turn the connected equipment off and on again.
③Disconnect and then connect the HDMI cord again.
➡If the HDMI OUT jack is used for video output, changing the video output resolution may solve the problem.

The picture does not fill the screen, even though the aspect ratio is set in "TV aspect" under "Display"

➡The aspect ratio of the disc is fixed on your BD/DVD.

The dark area of the picture is too dark/the bright area is too bright or unnatural.

➡Set "TV Aspect Ratio" in "Display" to "16:9 Wide" (default).

Sound

There is no sound.

➡The disc is dirty or flawed.
➡Re-connect the connecting cord securely.
➡The connecting cord is damaged.
➡The player is connected to the wrong input jack on the amplifier (receiver)

➡The amplifier (receiver) input is not correctly set.
➡The player is in pause mode or in Slow-motion Play mode.
➡The player is in scan mode.
➡If the audio signal does not come through the DIGITAL OUT (COAXIAL)/HDMI OUT jack, check the audio settings .
➡The equipment connected to the HDMI OUT jack does not conform to the audio signal format, in this case :
1) set “Digital output” to “PCM 5.1” in “Audio ” for 5.1ch.
2) set “Digital output” to “PCM 2.0” in “Audio ” for 2.0ch.

The sound is not output correctly.

➡Check the “Stereo” in “Audio” Setup if the AUDIO OUT (L/R) jacks are used for audio connection.

No sound is output from the HDMI OUT jack

➡Try the following:
①Turn the player off and on again.
②Turn the connected equipment off and on again.
③Disconnect and then reconnect the HDMI cord.
➡The HDMI OUT jack is connected to a DVI device (DVI jacks do not accept audio signals).

The sound volume is low.

➡The sound volume is low on some BDs/DVDs. The sound volume may improve if you adjust the TV or Amplifier volume output level.

Operation

The remote does not function.

➡The batteries in the remote are weak
➡There are obstacles between the remote and the player.
➡The distance between the remote and the player is too far.
➡The remote is not pointed at the remote sensor on the player.

The disc does not play.

➡The disc is loaded upside down. Insert the disc with the playback side facing down.
➡The disc is not fit to the disc tray absolutely.
➡The player cannot play certain discs
➡The region code on the BD/DVD does not match the player.
➡Moisture has condensed inside the player.
➡The player cannot play a recorded disc that is not correctly finalized
➡The file on the DATA DVD contains characters other than numbers and English alphabet.

The photo file cannot be played.

➡The disc is dirty or flawed.
➡The DATA DVD is not recorded in a JPEG format that conforms to UDF (Universal Disk Format).
➡The file has an extension other than “.JPEG” ， “.JPG.” and .png.
➡The image is larger than 4,096 (width) × 4,096 (height) in normal mode. (Some progressive JPEG files cannot be displayed even if the file size is within this specified capacity.)
➡The image does not fit the screen (the image is reduced).
➡The photo file format does not conform to DCF*.
➡Characters other than numbers and English alphabet are contained in the file name.

* “Design rule for Camera File system”: Image standards for digital cameras regulated by JEITA (Japan Electronics and Information Technology Industries Association).

The file name is not correctly displayed.

➡The player can only display numbers and alphabet. Other characters may be displayed differently.
➡Depending on the writing software used, the input characters may be displayed differently.

The disc does not start playing from the beginning.

➡Random Play or Repeat Play is selected.
➡Resume play mode is on.

The player starts playing the disc automatically.

➡The disc features an auto playback function.

Playback stops automatically.

➡While playing discs with an auto pause signal, the player stops playback at the auto pause signal.

Some functions such as Stop, Search, Slow- motion Play, Repeat Play, or Random Play
cannot be performed.
➡Depending on the disc, you may not be able to do some of the operations above. Refer to the operating manual that comes with the disc.

The language for the soundtrack cannot be
changed.
➡Try using the BD’s or DVD’s menu instead of the direct selection button on the remote
➡Multi-lingual tracks are not recorded on the BD/DVD being played.

➡The BD/DVD prohibits the changing of the language for the sound track.

The subtitle language cannot be changed or turned off.

➡Try using the BD’s or DVD’s menu instead of the direct selection button on the remote.
➡Multi-lingual subtitles are not recorded on the BD/DVD being played.
➡The BD/DVD prohibits the changing of subtitles.

The angles cannot be changed.

➡Try using the BD’s or DVD’s menu instead of the direct selection button on the remote.
➡Multi-angles are not recorded on the BD/DVD being played.
➡The BD/DVD prohibits changing of the angles.

The player does not operate properly.

➡When static electricity, etc., causes the player to operate abnormally, unplug the player.

The disc tray does not open and you cannot remove the disc even after you press ⏏ .Try the following:

①Turn the player off and on again.

Glossary

AACS
"Advanced Access Content System" is a specification for managing digital entertainment contents stored on the next generation of prerecorded and recorded optical media. The specification enables consumers to enjoy digital entertainment content, including high-definition content.

BD-J application
The BD-ROM format supports Java for interactive functions. "BD-J" offers content providers almost unlimited functionality when creating interactive BD-ROM titles.

BD-R
BD-R (Blu-ray Disc Recordable) is a recordable, write-once Blu-ray Disc, available in the same capacities as the BD below. Since contents can be recorded and cannot be overwritten, a BD-R can be used to archive valuable data or storing and distributing video material.

BD-RE
BD-RE (Blu-ray Disc Rewritable) is a recordable and rewritable Blu-ray Disc, available in the same capacities as the BD below. The re-recordable feature makes extensive editing and time shifting applications possible.

BD-ROM
BD-ROMs (Blu-ray Disc Read-Only Memory) are commercially produced discs and are available in the same capacities as the BD below. Other than conventional movie and video contents, these discs have enhanced features such as interactive content, menu operations using pop-up menus (see below), selection of subtitle display, and slideshow. Although a BD-ROM may contain any form of data, most BD ROM discs will contain movies in High Definition format, for playback on Blu-ray Disc players.

Blu-ray Disc (BD)
A disc format developed for recording/ playing high-definition (HD) video (for HDTV, etc.), and for storing large amounts of data. A single layer Blu-ray Disc holds up to 25 GB, and a dual-layer Blu-ray Disc holds up to 50 GB of data.

Chapter
Sections of a picture or a music feature that are smaller than titles. A title is composed of several chapters. Depending on the disc, no chapters may be recorded.

Dolby Digital
Digital audio compression technology developed by Dolby Laboratories. This technology conforms to multi-channel surround sound. The rear channel is stereo and there is a discrete subwoofer channel in this format. Dolby Digital provides the same discrete channels of high quality digital audio found in "Dolby Digital" theatre surround sound systems. Good channel separation is realized because all of the channel data is recorded discretely and little deterioration occurs because all channel data processing is digital.

Dolby TrueHD
Dolby TrueHD is a lossless coding technology that supports up to 8 channels of multi-channel surround sound for the next generation optical discs. The reproduced sound is true to the original source bit-for-bit.

DTS
Digital audio compression technology that DTS, Inc. developed. This technology conforms to multi-channel surround sound. The rear channel is stereo and there is a discrete subwoofer channel in this format. DTS provides the same discrete channels of high quality digital audio.
Good channel separation is realized because all of the channel data is recorded discretely and little deterioration occurs because all channel data processing is digital.

DTS-HD
DTS-HD is an extended format of the Coherent Acoustics audio coding system, which also encompasses DTS Digital Surround, DTS-ES, and DTS 96/24. DTS-HD is highly flexible in supporting the number of discrete surround sound channels. While 7.1ch surround sound is planned for Blu-ray Discs, the audio signals can be downmixed to 5.1 or 2 channels for backward compatibility, and the reproduced audio quality can either be at the bit rate of DTS Digital Surround or the lossless mode.

DVD VIDEO
A disc format that contains up to eight hours of moving pictures on a disc the same diameter as a CD. A single-layer single sided DVD holds up to 4.7 GB; a double layer single-sided DVD, 8.5 GB; a single layer double-sided DVD, 9.4 GB; double-layer double-sided DVD, 17 GB. The MPEG 2 format is adopted for the efficient video data compression.
The variable rate coding technology that changes the data to be allocated according to the status of the picture is adopted for reproducing high-quality pictures. Audio information is recorded in a multi-channel format, such as Dolby Digital, allowing for a realistic audio presence.

DVD-R
A DVD-R is a recordable disc that is the same size as a DVD VIDEO. Contents can be recorded only once to a DVD-R, and will have the same format as a DVD VIDEO. The DVD-R has two different modes: VR mode and Video mode. DVDs created in Video mode have the same format as a DVD VIDEO, while discs created in VR (Video Recording) mode allow the contents to be programmed or edited.

DVD-RW
A DVD-RW is a recordable and rewritable disc that is the same size as a DVD VIDEO. The DVD-RW has two different modes: VR mode and Video mode. DVDs created in Video mode have the same format as a DVD VIDEO, while discs created in VR (Video Recording) mode allow the contents to be programmed or edited.

DVD+R
A DVD+R (read "plus R") is a recordable disc that is the same size as a DVD VIDEO. Contents can be recorded only once to a DVD+R, and will have the same format as a DVD VIDEO.

DVD+RW
DVD+RW (read "plus RW") is a recordable and rewritable disc. DVD+RWs use a recording format that is comparable to the DVD VIDEO format.

Film-based software, Video-based software
DVDs can be classified as Film-based or Video-based software. Film-based DVDs contain the same images (24 frames per second) that are shown at

movie theatres. Video-based DVDs, such as television dramas or sitcoms, display images at 25 frames/50 fields (30 frames/60 fields) per second.

HDMI (High-Definition Multimedia Interface)
HDMI is an interface that supports both video and audio on a single digital connection. The HDMI connection carries standard to high definition video signals and multi-channel audio signals to AV components such as HDMI equipped TVs, in digital form without degradation.

The HDMI specification supports HDCP (High-bandwidth Digital Contents Protection), a copy protection technology for digital entertainment contents for HDMI.

Interlace format
Interlace format shows every other line of an image as a single “field” and is the standard method for displaying images on television. The even number field shows the even numbered lines of an image, and the odd numbered field shows the odd numbered lines of an image.

MPEG-2
One of the video data compression schemes established by the Moving Picture Experts Group (MPEG), which is adopted for DVD VIDEOs and digital broadcasts worldwide. The scheme specifies MPEG-2 PS (Program Stream) for recordable media such as a DVD VIDEO, and MPEG-2 TS (Transport Stream) for digital

broadcasts and other communications.

Pop-up menu
An enhanced menu operation available on BD-ROMs. The pop-up menu appears when MENU is pressed during playback, and can be operated while playback is in progress.

Progressive format
Compared to the Interlace format that alternately shows every other line of an image (field) to create one frame, the Progressive format shows the entire image at once as a single frame. This means that while the Interlace format can show 25 or 30 frames (50-60 fields) in one second, the Progressive format can show 50-60 frames in one second. The overall picture quality increases and still images, text, and horizontal lines appear sharper.

Title
The longest section of a picture or music feature on a DVD, movie, etc., in video software, or the entire album in audio software.

FCC Statement

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2)This device must accept any interference received including interference that may cause undesired operation.

2. *Federal Communications Commission (FCC) statement

This Equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC rules. These Limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions may cause harmful interference to radio communications .However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on , the user is encouraged to try to correct the interference by one or more of the following measures :

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

Specifications

Model	**BDP-610 & 620 (7.1ch)**			
System	**Laser :** Semiconductor laser			
Outputs	**Jack name**	Jack type	Output level	Load impedance
	AUDIO OUT L/R	Phono jack	2 Vrms	10 kilohms
	DIGITAL OUT (COAXIAL)	Phono jack	0.5 Vp-p	75 kilohms
	7.1 CH OUTPUT	Phono jack	2 Vrms	10 kilohms
	VIDEO	Phono jack	1.0 Vp-p	75 kilohms
	HDMI OUT	HDMI 19-pin standard connector		
General	**Power requirements**	**Power consumption**	**Operating temperature**	**Operating humidity**
	100-240 V AC, 50/60 Hz	25 W	5 °C to 35 °C	25 % to 80 %
	Dimensions (approx.) incl. projecting parts	**Mass (approx.)**		
	430X38X225 mm (width/height/depth)	2.1 kg		
Model	**BDP-190 (5.1CH)**			
System	**Laser :** Semiconductor laser			
Outputs	**Jack name**	Jack type	Output level	Load impedance
	AUDIO OUT FRONT L/R:	Phono jack	2 Vrms	10 kilohms
	DIGITAL OUT (COAXIAL)	Phono jack	0.5 Vp-p	75 kilohms
	5.1 CH OUTPUT	Phono jack	2 Vrms	10 kilohms
	VIDEO	Phono jack	1.0 Vp-p	75 kilohms
	HDMI OUT	HDMI 19-pin standard connector		
General	**Power requirements**	**Power consumption**	**Operating temperature**	**Operating humidity**
	100-240 V AC, 50/60 Hz	25 W	5 °C to 35 °C	25 % to 80 %
	Dimensions (approx.) incl. projecting parts	**Mass (approx.)**		
	360X38X225 mm (width/height/depth)	1.8 kg		
Model	**BDP-100 (2.0ch)**			
System	**Laser :** Semiconductor laser			
Outputs	**Jack name**	Jack type	Output level	Load impedance
	AUDIO OUT L/R:	Phono jack	2 Vrms	10 kilohms
	DIGITAL OUT (COAXIAL)	Phono jack	0.5 Vp-p	75 kilohms
	VIDEO	Phono jack	1.0 Vp-p	75 kilohms
	HDMI **OUT** :	HDMI 19-pin standard connector		
General	**Power requirements**	**Power consumption**	**Operating temperature**	**Operating humidity**
	100-240 V AC, 50/60 Hz	25 W	5 °C to 35 °C	25 % to 80 %
	Dimensions (approx.) incl. projecting parts	**Mass (approx.)**		
	260X38X260 mm (width/height/depth)	1.5 kg		

Supplied accessories，See page 8.

Hint

Specifications and design are subject to change without notice.

Important Satety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacture's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other appparatus (including amplifiers) that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Use only with the cart, stand, tripod, bracket, or table specified by the manufacture, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

12. Unplug this apparatus during lightening storms or when unused for long periods of time.
13. Refer all servicing to qualified sevice personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
15. The mains plug or an appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.
16. Do not use this apparatus in the box or in the cabinet, it should be placed on a ventilation area.
17. **Warning: To reduce the risk of electric shock, do not remove the cover or back, do not expose this apparatus to rain or moisture .There are no user- serviceable parts inside. Refer servicing to qualified service personnel.**

Caution:
To prevent electric shock, match the wide blade on the power cord plug to the wide slot on an electric outlet. If the plug does not fit, consult a licensed electrician to replace the obsolete outlet. Do not modify the power cord plug, or you will defeat this safety feature.

This symbol indicates that dangerous voltage constituting a risk of electric shock is present within your Blu-ray Disc Player. This label is located on the back of your Blu-ray Disc Player.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying your Blu-ray Disc Player.